PB86-166345

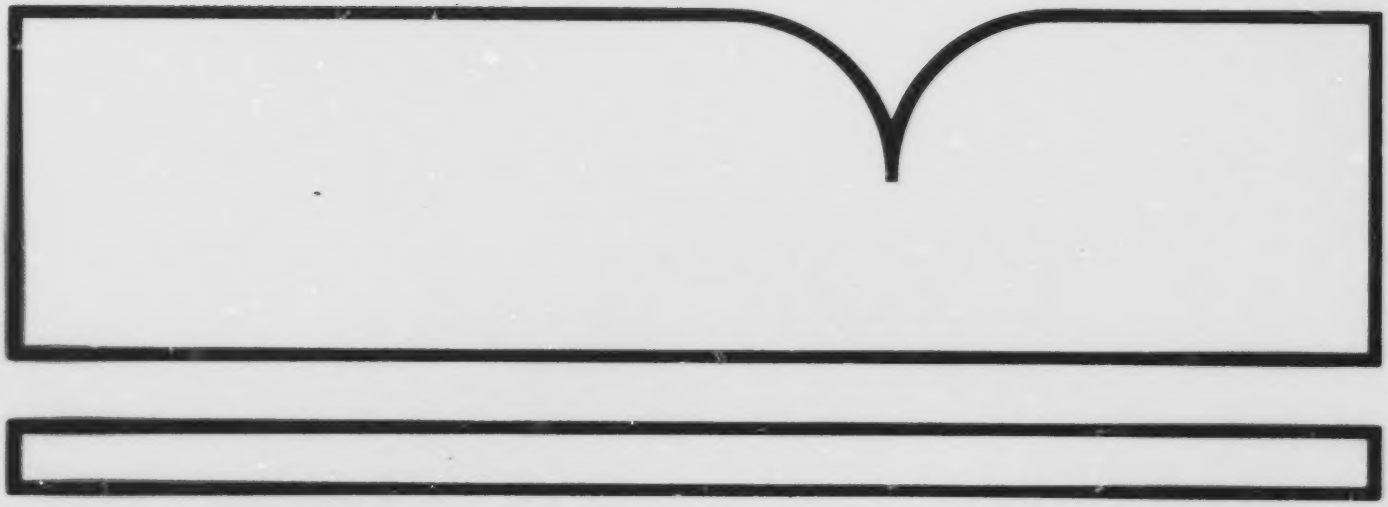
Acid Precipitation in North America 1983 Annual Data Summary from Acid Deposition System Data Base

(U.S.) Department of Energy, Washington, DC

Prepared for

Environmental Monitoring Systems Lab.
Research Triangle Park, NC

Dec 85



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Environmental Protection
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Environmental Monitoring Systems
Laboratory
Research Triangle Park NC 27711

EPA/600/4-85/061
December 1985

PB86-166345

Research and Development

EPA

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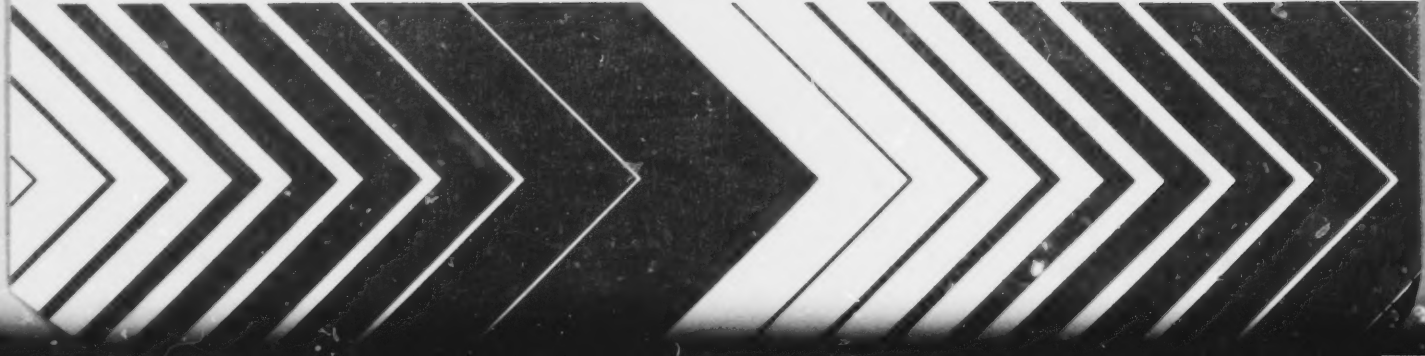

TECHNICAL REPORT DATA
(Please read Instructions on the reverse before completing)

1. REPORT NO.	2.	3. RECIPIENT'S ACCESSION NO.
EPA/600/4-85/061		PB86 166345/AS

4. TITLE AND SUBTITLE	5. REPORT DATE
ACID PRECIPITATION IN NORTH AMERICA: 1983 ANNUAL DATA SUMMARY FROM ACID DEPOSITION SYSTEM DATA BASE	December 1985
	6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S)	8. PERFORMING ORGANIZATION REPORT NO.
A. R. OLSEN A. L. SLAVICH	
9. PERFORMING ORGANIZATION NAME AND ADDRESS	10. PROGRAM ELEMENT NO.
BATTELLE PACIFIC NORTHWEST LABORATORIES RICHLAND, WASHINGTON 99352	11. CONTRACT/GRANT NO. IAG DU-890170-01
12. SPONSORING AGENCY NAME AND ADDRESS	13. TYPE OF REPORT AND PERIOD COVERED
ENVIRONMENTAL MONITORING SYSTEMS LABORATORY OFFICE OF RESEARCH AND DEVELOPMENT U.S. ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PARK, NC 27711	14. SPONSORING AGENCY CODE EPA/600/08

15. SUPPLEMENTARY NOTES

PROJECT OFFICER: HAROLD B. SAULS, EMSL/RTP FTS 629-2347

16. ABSTRACT

This report gives a summary of 1983 wet depostion precipitation chemistry data collected in North America and available in the Acid Deposition System (ADS) data base. North American wet deposition monitoring networks with data in ADS are NADP/NTN, CANSAP, APN, UAPSP, MAP3S/PCN, WISC, and APIOS. An overview of each network is given. Annual statistical summaries for 1983 are provided for pH, specific conductance, hydrogen ion (derived from pH), and the ion species sulfate, nitrate, ammonium, calcium, chloride, sodium, magnesium and potassium. Based on the annual summaries, 1983 North American spatial isopleth maps are constructed for precipitation weighted mean pH, sulfate, nitrate and ammonium ion concentrations, and annual deposition of hydrogen, sulfate and nitrate and ammonium ion species.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group

18. DISTRIBUTION STATEMENT	19. SECURITY CLASS *(This Report)*	21. NO. OF PAGES
RELEASE TO PUBLIC	UNCLASSIFIED	230
	20. SECURITY CLASS *(This page)*	22. PRICE
	UNCLASSIFIED	

EPA Form 2220-1 (Rev. 4-77) PREVIOUS EDITION IS OBSOLETE

EPA/600/4-85/061
December 1985

Acid Precipitation in North America:

1983 Annual Data Summary from Acid Deposition System Data Base

by

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U.S. Environmental Protection Agency
under a Related Services Agreement with
U.S. Department of Energy
Contract DE-AC06-76RLO 1830

EPA Project Officer
Harold B. Sauls

Environmental Monitoring Systems Laboratory
Office of Research and Development
U.S. Environmental Protection Agency
Research Triangle Park, NC 27711

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This document has been reviewed in accordance with U.S. Environmental Protection Agency policy and approved for publication. Mention of trade names or commercial products does not constitute endorsement or recommendation for use.

Preface:

This is a report of the Interagency Task Force on Acid Precipitation. The Task Force was created under the Acid Precipitation Act of 1980 (Title VII of P.L. 96-294) to conduct a comprehensive research program on the causes and effects of acid precipitation, and on means by which any adverse effects might be reduced.

The research program is managed through a series of task groups, each of which is responsible for planning and conducting a segment of the program. A lead agency has been assigned for each of the task groups as follows:

Task Group	Lead Agency
A. Natural Sources	Nat'l Oceanic & Atmospheric Administration
B. Man-made Sources	Department of Energy
C. Atmospheric Processes	Nat'l Oceanic & Atmospheric Administration
D. Deposition Monitoring	Department of the Interior
E. Aquatic Effects	Environmental Protection Agency
F. Terrestrial Effects	Department of Agriculture
G. Effects on Materials & Cultural Resources	Department of the Interior
H. Control Technologies	Environmental Protection Agency
I. Assessments	Environmental Protection Agency
J. International Activities	Department of State

The National Acid Precipitation Assessment Program is intended to focus federally-funded research on the timely development of a firmer scientific basis for policy decisions related to acid precipitation. Reports are released both as Task Force reports on multi-agency efforts and as individual agency reports on single-agency projects.

This report is a product of the Deposition Monitoring Task Group. The members of the task group are as follows:

Members:

Lead agency: U.S. Geological Survey

U.S. Environmental Protection Agency	Tennessee Valley Authority
U.S. Department of Energy	Pacific Northwest National Laboratory
Nat'l Oceanic & Atmospheric Administration	Brookhaven Nat'l Laboratory
Cooperative State Research Service	National Bureau of Standards
U.S. Forest Service	U.S. Bureau of Reclamation
National Park Service	U.S. Fish and Wildlife Service
U.S. Bureau of Land Management	U.S. Ofc. of Surface Mining & Reclamation

ABSTRACT

This report gives a summary of 1983 wet deposition precipitation chemistry data collected in North America and available in the Acid Deposition System (ADS) data base. North American wet deposition monitoring networks with data in ADS are NADP/NTN, CANSAP, APN, UAPSP, MAP3S/PCN, WISC, and APIOS. An overview of each network is given. Annual statistical summaries for 1983 are provided for pH, specific conductance, hydrogen ion (derived from pH), and the ion species sulfate, nitrate, ammonium, calcium, chloride, sodium, magnesium and potassium. Specific attention is directed to the steps involved in the preparation of summaries using unified valid data screening, data completeness measures, and criteria for reporting a summary. Based on the annual summaries, 1983 North American spatial isopleth maps are constructed for precipitation weighted mean pH, sulfate, nitrate and ammonium ion concentrations, and annual deposition of hydrogen, sulfate and nitrate and ammonium ion species.

ACKNOWLEDGMENTS

The data in this report are from the Acid Deposition System (ADS) for data storage and statistical reporting of atmospheric deposition data. Established by the U.S. Environmental Protection Agency at the Pacific Northwest Laboratory, it is funded as part of the National Acid Precipitation Assessment Program. ADS provides an integrated, centralized data base for data collected by atmospheric deposition monitoring networks in North America.

The ADS staff relies on dedicated individuals associated with each of the contributing networks for guidance in performing the functions associated with ADS. Without their help and patience our work would be much more difficult if not impossible. Special appreciation goes to Dave Bigelow, Gwen Scott and Jim Gibson for NADP; Leo Topol and Mary Ann Allan for UAPSP; Terry Dana and Jane Rothert for MAP3S/PCN; Elaine Chapman for WISC; Maris Lusis and Walter Chan for APIOS; and Bob Vet, Bill Sukloff and Allain Sirois for CANSAP and APN.

Our philosophy and efforts on procedures for preparing wet deposition summaries have been influenced by our participation on the Unified Deposition Data Base Committee. The committee, initiated by the Canadian Federal-Provincial Research and Monitoring Coordinating Committee's Atmospheric Subgroup, proposed precipitation data screening and wet deposition calculation procedures.

Without the help of Dave Engel and Elizabeth Davis, who completed the kriging computer runs and isopleth maps, and Sharon Popp, who organized and produced the report, this report would not be possible. Finally, the ADS project and this report has benefitted from the guidance we have received from our EPA project officers, Pete Finkelstein and Harold Sauls. Gerry Akland, Data Management and Analysis Division, EMSL, EPA, has supported our efforts from the beginning.

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ACID PRECIPITATION IN NORTH AMERICA: 1983 ANNUAL DATA SUMMARY FROM ACID DEPOSITION SYSTEM DATA BASE

1.0 INTRODUCTION

The Acid Deposition System (ADS) data base is an integrated, centralized data repository for precipitation chemistry data collected by monitoring networks in North America. This report provides statistical summaries of precipitation chemistry data collected during 1983. The summaries for individual sites are from networks who contributed 1983 sample data to ADS before April, 1985. Interpretative statistical analyses are not a focus of the report; however, users of the report will learn about major wet deposition monitoring networks in North America, the extent of their geographic coverage, and general characteristics of wet deposition for 1983.

The Acid Deposition System for data storage and statistical reporting of atmospheric data is established to provide an integrated centralized data repository for data collected by atmospheric deposition monitoring networks in North America. The purposes of ADS are (1) to facilitate access to deposition data collected by different organizations, (2) to provide annual statistical summaries of available data, and (3) to maintain the data for the assessment of long-term trends. A complete description of ADS is available in a system design and user's code manual by Watson and Olsen (1984).

2.0 MONITORING NETWORK DESCRIPTIONS

Wet deposition monitoring programs are conducted by a number of different organizations, each of which has its own specific objectives. This section gives a brief overview of the monitoring networks currently providing data to ADS. Table 2.1 summarizes the monitoring networks contributing data to ADS. Other networks have initiated the process of participating in ADS and will be included in future reports. The descriptions that follow are not intended to be comprehensive but only to alert the user that the data summaries are from sites operated by different networks. Each network establishes its own network operating protocol to meet its research objectives.

Geographic locations of monitoring sites associated with each network are displayed in figures contained in Appendix A. The sites displayed are all sites that are or were, at one time, operational for each network. Two computer generated listings of the sites are presented in Appendices B and C. The first lists the sites by their arbitrary ADS identification number. The second orders the sites by state and province. The latter also gives the site history as it is known to ADS.

NADP/NTN

The National Atmospheric Deposition Program (NADP) was established in 1978 to monitor trends in the exposure of various ecosystems to deposition in the United States. The NADP was created by the Association of State Agricultural Experiment Stations (originally as North Central Regional Project NC-141, now Interregional Project IR-7) to conduct research on atmospheric deposition and its effects in cooperation with federal, state, and private research agencies. A major program objective is to discover and characterize biologically important geographical and temporal trends in the chemical climate of North America through the continued development and maintenance of a deposition monitoring network. Since its inception the network has grown from 22 operational sites during 1978 to 39 in 1979, 82 in 1980, 96 in 1981, 110 in 1982, 139 in 1983, and 177 in 1984.

The Deposition Monitoring Task Group of the Interagency Task Force on Acid Precipitation was charged in the National Acid Precipitation Assessment

Plan (Interagency Task Force on Acid Precipitation, 1982) with developing a National Trends Network (NTN). The objective of the 150-station National Trends Network is to provide long-term monitoring (10-years minimum) at sites across the United States that represent broad regional characteristics of the chemistry of wet deposition. Robertson and Wilson (1985) describe the design of NTN. Many existing NADP sites were selected as NTN sites. The entire 150-station NTN network is expected to be operating before the end of 1985. At that time about 30 to 40 NADP sites, not formally part of NTN, will provide data that can be combined with data from NTN sites. Because of the identical mode of operation for NADP and NTN and because the NTN was initiated during 1983, the two networks are considered to be a single network for this report. Both acronyms NADP and NADP/NTN are used to refer to sites which are either NADP, NTN or both. In subsequent data reports the distinction between the networks will be explicit.

The NADP/NTN monitoring protocol is based on a weekly (Tuesday to Tuesday) sampling protocol with wet-only sample collection. The NADP program has developed and adheres to strict requirements regarding sample collection and analysis. The requirements assure uniformity in siting criteria, sampling protocol, analytical chemistry techniques, data handling, and overall network operation. For specific details the reader may consult existing publications on siting criteria (NADP 1984a), site operation and collection protocol (NADP 1982), overall quality assurance plans (NADP 1984b), and analytical procedures (NADP 1980).

MAP3S/PCN

The MAP3S Precipitation Chemistry Network (MAP3S/PCN) was initiated in 1976 with the objective of creating a long-term high-quality data base for the development of regional transport and deposition models (MAP3S 1982). This nine-station network covers the northeastern United States (see map Appendix A) and was chosen to maximize information on regional precipitation chemistry, subject to the constraints of financial limitations on the number of stations and the geographical location of skilled operating groups.

Precipitation samples are obtained on an event basis, "event" being defined as any 24-hour period during which precipitation occurred. Overall

TABLE 2.1. Description of Monitoring Networks Currently in ADS.

Network	Geographical Area	Period of Operation	Number of Sites*	Sampling Period	Measurements
National Atmospheric Deposition Program (NADP) National Trends Network (NTN)	National Coverage of United States	1978 to present	177	Weekly samples collected each Tuesday.	pH, specific conductance, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, PO_4^{3-}, K^+, Na^+, CA^{2+}, Mg^{2+}.
MAP3S Precipitation Chemistry Network (MAP3S/PCN)	Eastern United States	1976 to present	9	Event samples.	pH, specific conductance, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, K^+, Na^+, Ca^{2+}, Mg^{2+}, PO_4^{3-}, NO_2^-, SO_3^{2-}
Wisconsin Deposition Monitoring Network (WISC)	Wisconsin State	April 1982 to June 1984	3	Daily samples.	pH, specific conductance, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, K^+, Na^+, Ca^{2+}, Mg^{2+}, PO_4^{3-}, strong acids, total acids
Canadian Network for Sampling Precipitation (CANSAP)	National Coverage of Canada	1977 to present	62	Monthly samples collected on last day of month.	pH, specific conductance, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, K^+, Na^+, Ca^{2+}, Mg^{2+}
Canadian Air and Precipitation Monitoring Network (APN)	Eastern Canada	November 1978 to present	9	Daily samples.	pH, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, K^+, Na^+, Ca^{2+}, Mg^{2+}, total phosphorus
Acidic Precipitation In Ontario Study Cumulative Network (APIOS-C)	Ontario Province	September 1980 to present	36	Monthly samples.	pH, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, K^+, Na^+, Ca^{2+}, Mg^{2+}, total Kjeldahl nitrogen, total phosphorus and trace metals: Zn, Fe, Ni, Cu, Pb, Al, Cd, Mn and V.
Acidic Precipitation In Ontario Study Daily Network (APIOS-D)	Ontario Province	September 1980 to present	16	Daily samples.	pH, specific conductance, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, Na^+, Ca^{2+}, Mg^{2+}, acidity.
Utility Acid Precipitation Study Program (UAPSP and EPRI/SURE)	Eastern and Central United States	EPRI/Sure operated from October 1978 to September 1981. UAPSP began operation in October 1981.	19	Daily samples.	pH, specific conductance, SO_4^{2-}, NO_3^-, NH_4^+, Cl^-, K^+, Na^+, Ca^{2+}, Mg^{2+}, PO_4^{3-}, strong acids, total acids

*Number of sites that are currently operating or were, at one time, operating.

network coordination and central analytical laboratory operation is performed by the Pacific Northwest Laboratory of the Department of Energy. The characteristics and protocol of the network are reported by Rothert and Dana (1983) and in other similar periodic summary reports.

WISC

The Wisconsin Deposition Monitoring Network (WISC) was established in April, 1982 to provide comprehensive precipitation chemistry data from three sites in the state of Wisconsin. Each of the three sites is located within a lake watershed. These sites were selected to enhance geographic coverage of deposition in Wisconsin and to provide for collection of discrete event-related samples.

Samples were collected on a daily basis and analyzed at the Precipitation Chemistry Laboratory at Battelle-Northwest. Network characteristics and protocols are given in Chapman (1983a,b). At the conclusion of network operations in June 1984, two of the sites became part of the UAPSP network and the third site became part of the NTN network.

UAPSP

The Utility Acid Precipitation Study Program (UAPSP) was established in 1981 to ensure that a precipitation chemistry data base of defined accuracy and precision would be available. The use of such a data base would include the evaluation of temporal and geographic variability and trends. Located in the eastern United States, the UAPSP network consists of 19 stations which includes an existing 5-station set operated by the Electric Power Research Institute (EPRI) since 1979. Four additional stations were operated by EPRI during 1979 and 1980 but were not continued. Previously, the nine EPRI stations formed the EPRI/SURE network. In this report all stations are referred to as belonging to the UAPSP network. During 1979 and 1980 two samplers were collocated at nine sites. Since then, collocated samplers are maintained at two of the monitoring stations, with sites rotated yearly.

The UAPSP samples are collected on an event basis, "event" being defined as any period, less than 24 hours, during which precipitation occurred. The

quality of the sample measurements is controlled by providing stepwise standard operating procedures and staff training on all aspects of the measurement process from sample collection to data recording (Topol 1983a, 1983b, 1983c). Measurements and data acquisition are conducted by Combustion Engineering Environmental Monitoring and Services Center.

APN

The Canadian Air and Precipitation Monitoring Network (APN), in operation since November 1978, was established to provide a set of regionally representative sites from which concentrations of selected air and precipitation trace constituents associated with long-range transport could be determined (Barrie et al. 1980). All APN stations are located remote from the influences of local pollution sources and urban areas of any size. By the end of 1983, the APN network consisted of nine stations. Daily precipitation samples are collected with a Sangamo collector and analyzed individually.

CANSAP

The Canadian Network for Sampling Acid Precipitation (CANSAP) was established by the Atmospheric Environment Service in April 1977 (Barrie and Sirois 1982). Previously, a network was established to monitor the background levels of certain chemical species in precipitation (the Background Air Pollution Monitoring Network) and was part of a long-term global network initiated by the World Meteorological Organization. CANSAP was initiated to provide finer resolution than the Background Network. The network expanded from 45 to 53 sites until 1983 when only 27 sites continued operation. The reduction in sites occurred mainly in eastern Canada and is connected with the initiation of the new CAPMoN network described below. All the sampling sites are located at AES Surface or Upper Air Weather Stations except for the Kejimkujik site which is maintained by the Canada Wildlife Service. The sampling sites are generally located in rural to semi-urban type environments.

The CANSAP network collects monthly precipitation samples in a wet-only Sangamo collector. Prior to January 1, 1980, the sample was left in the collector bucket until the end of the month. After January 1, 1980, composite monthly sampling was instituted. The sample is removed daily and emptied into a large bottle stored indoors.

The Canadian Air and Precipitation Monitoring Network (CAPMoN) is an amalgamation of three pre-existing networks operated by the Atmospheric Environment Service. They are: the Canadian Network for sampling Precipitation (CANSAP) , the Air and Precipitation Monitoring Network (APN), and the Canadian Arctic Aerosol Sampling Network (CAASN). The stated objectives of the wet deposition monitoring activities in CAPMoN are (1) to measure temporal variations and long-term trends in precipitation chemistry in all regions of Canada, (2) to determine regional-scale concentration and deposition fields of atmospheric trace constituents, and (3) to provide a data base for use in the development and verification of long-range transport models. The wet deposition sampling is carried out on a daily sampling protocol using Sangamo and MIC Type A Wet Deposition Collectors modified for daily use. Network operation began in 1983. Vet and Onlock (1983) describe the network and present a proposed network quality assurance plan.

APIOS

In 1980, the Ontario Ministry of the Environment established two networks to monitor both wet and dry deposition of selected ion species. The networks (one cumulative, one daily) are under the auspices of the Acidic Precipitation in Ontario Study (APIOS). The purpose of the cumulative network (APIOS-C) is to determine the long-term deposition pattern in Ontario (Chan, Orr and Vet 1982a). It sampled on a monthly basis from its inception to the end of 1981 and then switched to a 28-day sample period on January 5, 1982. The sample period begins on a Tuesday to facilitate comparison with NADP stations. The daily network (APIOS-D), which has a daily sampling protocol, is designed to define the sector of origin of the ion species at the receptors, as well as the frequency and intensity of acidic deposition episodes (Chan, Orr and Vet 1982b).

The APIOS-C network began operation in September 1980 at 32 sites and expanded to 36 sites by mid-1982. The sites are selected to be regionally representative. The Sangamo wet/dry collector is collocated with a standard rain gage.

The APIOS-D network began operation in September 1980 at 16 sites in southern Ontario. Four clusters of four samplers each form the basis for site

location. Within each cluster the samplers are separated into two groups of two samplers each. Distances between groups are approximately 50 to 100 km and within groups, 5 to 10 km. At one site, collocated samplers are operated. In 1980, 1981 and 1982, an Aerochem Metrics wet-only deposition collector was used from approximately May through October. During the winter months, a bulk Sudbury Environmental Study (SES)-type collector was used.

3.0 PREPARATION OF ANNUAL SUMMARIES

A major concern associated with any statistical summary is the quality of the data on which the summaries are based. The annual summaries included in this report are prepared using a general algorithm and framework which explicitly addresses the concern for data quality. Data quality begins when networks establish operating protocols, perform data screening and implement quality control and quality assurance programs. ADS requires that networks provide documentation on their network operation and that a minimum set of information accompany each sample result. Hence networks not able to provide the required information are unable to transfer data to ADS. In preparing annual concentration and deposition summaries, four related steps occur. First, network protocols and data screening procedures are determined and an algorithm to translate this information along with the sample result to the ADS data base is constructed. Second, valid sample criteria for the annual summary are determined. Third, five data completeness measures for each summary are computed. Fourth, criteria based on the data completeness measures are selected for reporting a specific annual summary. The following sections describe these four steps. The concept of site representativeness is discussed in a final section.

NETWORK PROTOCOLS AND DATA SCREENING

Precipitation chemistry monitoring networks collect precipitation samples in the field, transport them to an analytical laboratory for chemical analysis and report the sample results for others to use. Network specific protocol procedures are implemented to ensure that data are collected, analyzed and reported as consistently as possible. Each network uses a different approach to the screening and subsequent reporting of sampling data. For example, some networks have rigid screening procedures which a sample must pass before any data are reported. Other networks may use essentially the same screening procedures but will report the sample data accompanied by appropriate notes even when the sample does not meet the screening criteria. These differences in network screening and reporting of sample data must be considered when data from multiple networks are combined for an analysis.

The following is a general discussion of the data screening and reporting procedures adopted by networks included in this report. Information is obtained from documentation available from each network and discussions with network personnel directly knowledgeable about their screening and reporting procedures. Most of the information is used in the transfer of each network's data to a common data format for wet deposition data used in the ADS data base.

Each network has a chemical analysis laboratory which performs sample analyses and checks the reasonableness of the sample analysis results using information available from the analysis. Some networks may use additional information to initiate a reanalysis. For the current purpose it is sufficient to state that each network receives data from a chemical analysis laboratory which has been subjected to internal laboratory checks. The results reported from the laboratory are assumed to represent the ion species concentration in the sample as received by the laboratory. All chemical analysis laboratories used by the networks participate in interlaboratory comparison studies. Laboratory sample analysis protocols are available from individual network coordinators.

Each network then combines the sample results from the laboratory with supporting comments and flags associated with the sample collection effort. This includes information from the time of field collection until the sample is analyzed. The information differs widely across the networks, especially as to how much is recorded in a network data base for others to use. The ADS data base incorporates all of the comments, codes and flags that are available from each network in a computerized form. It is assumed that the data sent to ADS by each network have been subjected to an internal network individual sample screening process. That process may result in samples being declared invalid/suspect and either not being reported or being appropriately coded.

VALID SAMPLE CRITERIA

Valid sample criteria have been designed to incorporate each network's comments, codes and flags into the decision process of determining whether an individual wet deposition sample result is to be included or excluded from a summary. The discussion on screening for valid samples is stated in terms of

the ADS data base common record format (Watson and Olsen, 1984) with some reference to network specific codes as necessary for clarification.

All networks include note codes which are informational in nature. Some codes denote reasons why sample results are not available or reported. Other codes describe conditions present in the field, and during sample transit and sample receipt. Unless explicitly stated elsewhere, these note codes are not used in determining whether a sample is valid. The basic premise is that each network has screened individual sample results for possible contamination. If a sample result passes their screening, it is assumed that possible sample contamination indicated by field or lab comments did not materially affect the sample ion species concentrations.

A set of valid sample criteria has been designed for each network. Each sample associated with a sampling period is screened to determine whether the sample meets specific criteria. The screening criteria use the informational comments and codes provided by each network. The criteria are:

- All sampling periods for which it is known that no precipitation occurred are considered valid sample periods. This applies mainly to weekly, monthly and 28-day sampling protocols. For event and daily sampling protocols the absence of a sample record for a day implies that no precipitation occurred.

- The wet deposition sample must be a wet-only sample. All samples identified as bulk, partially bulk or undefined are invalid.

- Wet deposition samples that have insufficient precipitation to complete a chemical analysis for a specific ion species are invalid for that specific ion species. Event/daily samples are most likely to have this occur.

- An individual ion species concentration accompanied by a comment code designating the measurement to be "suspect" or "invalid" is declared an invalid sample. Deletion of the ion species concentration by the network for the same reason has the same result.

- The actual sampling period for a wet deposition sample must be close to the network's protocol sampling period. Specifically, the following conditions lead to an invalid sample:

  - For NADP, actual DAYS-IN-SAMPLE less than 6 or greater than 8. This includes all NADP samples coded "LD" with measured precipitation.

- For APIOS-C, actual DAYS-IN-SAMPLE less than 21 or greater than 35.

- For CANSAP, actual DAYS-IN-SAMPLE less that 22.

DATA COMPLETENESS MEASURES

It is unusual for all precipitation events to be sampled and result in valid samples. Data completeness measures are necessary to quantify the amount of information in the summary. Recommended data completeness measures are percent precipitation coverage length, percent total precipitation, percent valid sample length, percent of samples with measured precipitation that are valid, and percent collection efficiency.

The data completeness measures reflect the type of problems one encounters when a data user is actually confronted with a "real" data set, and are motivated by the following questions, all of which require answers for the data completeness and temporal representativeness to be properly assessed:

- What portion of the summary period do we have a good knowledge of the amount of precipitation that fell (%PCL)?

- What portion of the precipitation measured is associated with a valid chemical analysis and sample result (%TP)?

- What percent of the time during the summary period do these valid samples represent (%VSL)?

- What percent of the total number of actual sample periods with measured precipitation do these valid samples represent (%VSMP)?

- What was the collection efficiency, referred to a colocated standard gage, over the summary period (%COL EFF)?

Percent precipitation coverage length (%PCL) is defined as the percent of the summary period for which information is available on whether precipitation occurred.

$$\%PCL = 100 * (SPL - NDPP)/SPL$$

where SPL = number of days in the summary period

NDPP = number of days when it is not known if precipitation occurred.

If precipitation is known to have occurred during a particular sampling period but no quantitative estimate of the amount is available then no knowledge of precipitation is assumed. Total precipitation depth is the amount of precipitation occurring during the period of precipitation coverage. This data completeness measure does not include any consideration of the availability of a valid precipitation chemistry sample.

The remaining data completeness measures are computed for each ion species or component summary and may differ even though they are for the same summary period and site. The cause of the difference is that determination of valid samples is completed for each ion species or component independently. If a network has a protocol for prioritizing the ion species to be measured in the event of insufficient sample volume to complete all measurements or if a network's validation procedure is applied to individual ion species, then the number of valid sulfate and nitrate sample values may differ, affecting the data completeness measures.

Percent total precipitation (%TP) is the percent of total precipitation depth measured during the summary period that is associated with valid component samples.

$$\%TP = 100 * TPVC / TP$$

where TP = total precipitation depth

TPVC = portion of total precipitation depth associated with a valid sample component measurement.

Component is a generic term that refers to any ion species or other measurement made on a wet deposition sample.

Percent valid sample length (%VSL) is the percent of the days in the summary period that are associated with valid sample periods.

$$\%VSL = 100 * (NDNP + NDVCMP)/SPL$$

where NDNP = number of days in sample periods during which no precipitation occurs

NDVCMP = number of days in sample periods with valid sample component measurement on measured precipitation sample.

This measure is most useful for sites with weekly, monthly or 28-day sampling protocols.

%VSMP is the percent of wet deposition samples that have valid component sample component measurements.

$$\%VSMP = 100 * NSVCMP / NSMP$$

where NSVCMP = number of wet deposition samples in summary period that result in a valid sample component measurement

NSMP = number of wet deposition samples in summary period.

%COL EFF, percent collection efficiency, is the ratio (converted to a percent) of the total sample volume (converted to a depth) to the total precipitation depth where totals are for qualifying samples.

$$\%COL\ EFF = 100 * EPDVC / ERGVC$$

where EPDVC = sum of depths predicted from sample volume for qualifying samples

ERGVC = sum of standard gauge depths for qualifying samples

Qualifying samples are those samples that have both a co-located standard gauge and sample volume measurement available and that have a valid sample component measurement.

CRITERIA FOR REPORTING SUMMARY

Five criteria form the basis for the decision to report an annual summary. The five data completeness measures and the required percentages for reporting a summary are:

Data Completeness Measure	Reporting Criteria
%PCL	90% or greater
%TP	75% or greater
%VSL	75% or greater
%VSMP	75% or greater
%COL EFF	75% to 125%

An annual summary for an ion species at a site must meet all five criteria in order for the summary to be reported.

Selection of reporting criteria values requires a judgement on whether a summary meeting the criteria has sufficient data to provide meaningful information. The criteria used here are, in one sense, arbitrary as no quantitative measure of "meaningful" is available. They are based on the knowledge and experience of researchers concerned with precipitation chemistry data summaries. In particular, the Unified Deposition Data Base Committee discussed possible reporting criteria. The committee, initiated by the Canadian Federal-Provincial Research and Monitoring Coordinating Committee's Atmospheric Sciences Subgroup, proposed data screening, calculation procedures, and reporting criteria (Unified Deposition Committee, 1985). Substantial similarity exists between the criteria applied in the current report and those suggested by the committee.

SITE REPRESENTATIVENESS

Data completeness measures reflect only one aspect of the "quality" of a precipitation chemistry data summary. The "quality" of a summary is also a function of the representativeness of the chemistry of the precipitation. This includes consideration of whether the sampling site is, in some sense, representative of the local regional area and whether the chemistry reported for a sample is representative of the precipitation that actually occurred at the site. The latter is not explicitly addressed in this report but is addressed by each network's protocols. The former, site representativeness, is addressed below.

A definition of site representativeness implies that specific criteria for measuring representativeness are available. The criteria would reflect those attributes that are important for a specific objective, e.g., evaluation of spatial patterns in wet deposition over North America. No generally

accepted quantitative or qualitative ranking of site representativeness for all precipitation chemistry sites included in the ADS data base is available. The concept of site representativeness has been addressed by the Unified Deposition Data Base committee. They developed a process for assigning site representativeness levels centered around the concept of "regionally representative" in the context of evaluation of long-range transport models. Although their assignments cover only eastern North America and reflect only one concept of site representativeness, they are included in this report because the concept is important and the assignments are the only ones currently available.

The Unified Deposition Data Base committee defined three main levels of site representativeness. The levels and their descriptions are:

Level	Description
1	Regionally representative
2A	Potentially regionally representative
2	Regional representativeness uncertain
2B	Potentially regionally unrepresentative
3	Regionally unrepresentative
blank	Representativeness not determined

The assignment of a level to a site involved evaluation of seven criteria. If a site failed one or more of the criteria, it was generally considered to be unrepresentative (level 3) for monitoring regional-scale wet deposition. Exceptions occurred if previous examination of historical data from the site or if the judgment of researchers familiar with the site, indicated that the local interferences were small or insignificant. The seven criteria applied were:

- No continuous industrial source, a town or suburban area located within 10 kilometers.
- No major point source (or combination of point sources) with emissions greater than 10,000 tons sulfur dioxide or nitric oxide per year, located within 50 kilometers.
- No surface pollutant storage facility (e.g., salt pile) located within 100 meters.
- No transportation sources, furnaces or incinerators located within 100 meters.

- No cultivation or other agricultural activity occurs within 500 meters.
- No buildings, trees, etc., impinge on the core defined by a 45 degree angle above the horizonal plane and centered at the site (30 degrees is considered optimal but 45 degrees is the highest acceptable angle).
- No local area dusty conditions due to poor ground cover.

Level 1 sites met all of the criteria, i.e., do not suffer from any of the interferences. For a large portion of the sites evaluated, insufficient information was available to conclusively assign the sites to level 1 or 3. The sites failed one or more of the criteria; however, the severity of the local influences could not be assessed from the information available. In this case, the site was classified as level 2. Whenever possible, a tentative judgment was made to distinguish further between level 2A and 2B sites. In the former case, the local interferences are judged to be small or insignificant and the sites are termed potentially representative (2A). In the latter case, the local interferences are judged to be more of a problem and the sites are termed potentially unrepresentative (2B). In either case, the evaluation of the site did not clearly result in assigning the site as level 1 or 3. A site that was not evaluated was not assigned a level (a blank appears in the data tables in this case).

A site judged to be regionally unrepresentative (level 3) can, and usually does, meet the siting criteria adopted by the network operating the site. Moreover, the network siting criteria may be appropriate for the objectives of the network. Therefore, a site assigned to level 3 can not automatically be assumed a "poor" site. It is also possible for a site not to meet its network's siting criteria and still be judged regionally representative (level 1). The site representativeness levels do indicate whether the seven criteria are met and are subject to revision as more information becomes available.

4.0 APPLICATION OF DATA COMPLETENESS MEASURES TO 1980-1983 ANNUAL SUMMARIES

Efforts to monitor the precipitation chemistry of wet deposition in North America have rapidly increased during the past 5-10 years. More organizations have instituted monitoring programs, and existing monitoring efforts have increased in scope. The implementation of the National Trends Network (NTN) and the Canadian Acid Precipitation Monitoring Network (CAPMoN) are two examples of new national networks beginning operation in 1983. Other networks, not included in this report, are collecting wet deposition data. Those networks meeting the requirements of ADS are being added to the ADS data base and will be included in future reports. Several networks, currently contributing data to ADS, have substantially increased the number of sites in their networks since 1980. In this section an overview of the changes in number of sites for networks with data in ADS is given. A summary of the data completeness measures applied to each network for the years 1980 to 1983 is presented.

Eight networks contributing data to ADS operated between 1980 and 1983. At the beginning of 1980 the total number of sampling sites was 115 (NADP:41, CANSAP:53, MAP3S:8, EPRI/SURE:9, APN:4). By the end of 1983, eight networks were operating 253 sites. The number of sites in operation at the end of the year is given in Table 4.1 for each network. In 1980 the APIOS networks began operation and in 1981 the EPRI/SURE network was expanded into the UAPSP network. CANSAP decreased the number of sites in 1983 at the time when the new CAPMoN network was being initiated. In 1982 a three site network began operation in Wisconsin for two years. The number of sites in operation for a full year increased from 111 in 1980 to 213 in 1983 with the largest increase occurring in 1981 when the APIOS network began full operation, and the large number of NADP sites initiated in 1980 had their first full year of operation in 1981. A full year of operation was defined as the site being operational for at least eleven consecutive months of the calendar year, i.e., either January or December may be missing.

TABLE 4.1. Number of Sites by Network Operating at Year End, For Entire Year and Meeting Selection Criteria

Network	Number of Sites Operating at End of Year				Number of Sites Operating Full Year				Number of Sites Meeting Selection Criteria			
	80	81	82	83	80	81	82	83	80	81	82	83
NADP/NTN	81	93	107	139	40	77	92	105	15	53	65	70
MAP3S/PCN	8	9	9	9	8	9	9	9	5	7	9	7
WISC	-	-	3	3	-	-	0	3	-	-	0	2
UAPSP	7	21	22	23	6	6	21	20	6	5	21	20
APN	6	6	8	*	4	6	6	*	2	5	5	*
APIOS-D	8	16	16	16	0	12	16	16	0	0	0	8
APIOS-C	30	35	35	36	0	30	34	33	0	4	9	17
CAMSAP	54	54	50	27	53	54	50	27	22	22	17	12
TOTAL	194	234	250	253	111	194	228	213	50	96	126	136
Percent of Full Year Operation Sites Meeting Selection Criteria									45%	49%	55%	64%

*1983 data not available for summary.

When a new network begins operation or even when a new site within an established network begins operation, startup operational difficulties are a common occurrence. With good site operator training and subsequent feedback, improved operations and data quality result. One measure of site and network operation quality is the number of sites that meet the criteria for reporting an annual summary (See Section 3). A substantial increase in the number of sites meeting the criteria for reporting an annual summary occurred during the four year period (Table 4.1). The number of sites meeting the selection criteria were 50, 96, 126 and 136 for 1980 to 1983 respectively. Note that APN data for 1983 were not available for summary. The percent of sites meeting the criteria during the year that operated a full year increased from 45% in 1980 to 64% in 1983.

Individual networks fail to meet the criteria for different reasons. For all four years the majority of the CANSAP sites failing to meet the criteria did so because of low sample collection efficiency (%COL EFF). In 1983 low collection efficiency accounts for all 15 sites failing to meet the criteria. Most of the sites are located in western Canada. For APIOS-D daily network, all sites fail the criteria %VSMP, number of measured precipitation samples resulting in valid samples. This is a direct result of the APIOS-D network protocol of switching to bulk sample collection during the winter months. This practice was stopped in 1983. The APIOS-C monthly network sites fail because of low collection efficiencies, similar to the CANSAP sites. MAP3S, WISC, UAPSP and APN sites usually meet the criteria. However, when they do fail, it is mainly due to low %VSMP. Typically, the invalid samples are related to insufficient precipitation to complete precipitation chemistry analysis. This may be an indication that the definition of a precipitation event should be revised. In 1980 NADP sites failing the criteria did not meet the precipitation coverage requirement (%PCL). This is the direct result of the data handling protocol used until 1981. In subsequent years most sites failed the valid sample length (%VSL) criteria.

Five data completeness measures are used in the criteria for reporting an annual summary. In Figures 4.1 to 4.5 stem and leaf displays for the measures

are given. Only sites defined as operating for a full year in 1983 are included. The dominate feature of the data completeness measures' distributions is their general smooth decrease from the mode in the 90s.

```
Count   Stem/leaf
    1    4  2
    1    4
    1    5
    1    5
    1    6
    1    6
    1    7
    1    7
    1    8
    3    8  79
   10    9  0112233
   37    9  56888888888889999999999999
 (176)  10  00000000000000000000000000000000000----
```

FIGURE 4.1 Stem/leaf display of %PCL for 1983 sites operating for a full year.

```
Count    Stem/leaf
    1    2  6
    1    3
    1    3
    3    4  02
    3    4
    3    5
    5    5  89
   10    6  11334
   16    6  777999
   25    7  122223444
   30    7  55899
   45    8  011123333334444
   66    8  556666777778888899999
  102    9  000000000111112222333333333344444444
 (68)    9  55555555555555556666666666667777777777788888888888999999999999999
   43   10  00000000000000000000000000000000000000000000
```

FIGURE 4.2 Stem/leaf display of %TP for 1983 sites operating for a full year.

Count	Stem/leaf	
1	2	8
1	3	
2	3	5
3	4	1
3	4	
5	5	22
7	5	58
12	6	33344
18	6	577889
29	7	00001233444
45	7	5555557777788999
69	8	11111123333333333333444
100	8	55555555667777777777777888899
(57)	9	000000011112222222222222222222222222333333333444444444
56	9	55556666666666777777888888899999999
21	10	000000000000000000000

FIGURE 4.3 Stem/leaf display of %VSL for 1983 sites operating for a full year.

Count	Stem/leaf	
2	4	13
2	4	
4	5	01
5	5	6
11	6	001134
22	6	56678899999
41	7	0001111222223344444
61	7	55566666677777888889
92	8	000011111222222333333333344444
(38)	8	55555555555666666667777777788888888999
83	9	000011111112222222222222222222222222223334444444
34	9	566666777889
22	10	000000000000000000000

FIGURE 4.4 Stem/leaf display of %VSMP for 1983 sites operating for a full year.

Count	Stem/leaf	
1	0	0
1	1	
1	2	
2	3	4
3	4	0
6	5	788
21	6	223344556788899
45	7	000122333335556788889999
100	8	000111111123334444444555555666666777778888899999999999
(86)	9	001111111222222333333333344444444455555555556666666666
		777777777788888888999999999
27	10	000000111111122222356889
2	11	1
1	12	
1	13	4

FIGURE 4.5 Stem/leaf display of %COL EFF for 1983 sites operating for a full year.

5.0 1983 CONCENTRATION AND DEPOSITION ANNUAL PRECIPITATION CHEMISTRY SUMMARIES

Annual statistical summaries for each site meeting the reporting criteria for calendar year 1983 are contained in Appendices D, E and F. Annual summaries are given for pH; hydrogen (derived from pH), sulfate, nitrate, ammonium, calcium, chloride, sodium, magnesium and potassium ion species; and specific conductance. Spatial isopleth maps for precipitation weighted pH, sulfate, nitrate and ammonium ion annual average concentration and for hydrogen, sulfate, nitrate and ammonium ion annual deposition are contained in Appendix D. Appendix E contains tables of precipitation weighted annual average concentration and annual deposition for all ions listed above. In addition the five data completeness measures and preliminary site representativeness levels are given. Appendix F emphasizes the distribution characteristics of pH, specific conductance, precipitation depth, and ion species concentrations. Specifically, ion species concentration distribution properties summarized are the number of valid samples, number of valid samples below the detection limit, precipitation weighted mean, geometric mean, standard deviation of logarithms, arithmetic mean and standard deviation, the minimum and maximum valid sample value, the 25th, 50th and 75th percentile and Lilliefors D-statistic to test for normality and log-normality of the concentration distribution.

The algorithms for constructing the annual summaries are applied to data contained in the ADS data base and utilize the concepts briefly described in Section 3. The exact procedures used are currently being documented (draft document by Olsen and Slavich, ADS Summary Procedures, Data Quality Measures and Summary Reports). Because of the number of possible definitions, the procedures for calculating precipitation depth, total precipitation, precipitation weighted concentration, and annual deposition are briefly described.

Precipitation depth has a specialized meaning. Precipitation depth for a single sample is equal to the reported rain gage depth. If the rain gage depth is not reported, precipitation depth is equal to the predicted depth based on the sample volume and surface area of the collector. Total precipitation is the sum of the precipitation depths for all sample periods with measured precipitation during the summary period. Precipitation weighted

average concentration is the weighted average of all valid concentration values where the weights are the corresponding sample precipitation depth values. Annual deposition is the product of the precipitation weighted average concentration and the total precipitation during the summary period.

Only those annual summaries for 1983 that met the criteria for reporting an annual summary are included in Appendices D, E and F. Since the data completeness measures are determined for each ion species, it is possible for an annual summary to appear for one ion species but not another for a site. In particular, more pH summaries met the criteria than for the sulfate and nitrate summaries. The spatial distribution of all sites that operated for a full year in 1983 (see Section 4) and of the subset that met the criteria for sulfate is given in Figure 5.1. Western United States and Canadian sites appear not to meet the reporting criteria more often than eastern sites. The Canadian sites fail because of sample collection efficiency while the western NADP sites fail because of valid sample length (%VSL). The number of sites available in eastern North America make it feasible to estimate the spatial pattern of selected ion species.

Estimating the spatial distribution of an ion species' annual precipitation weighted average concentration or annual deposition is a problem of estimating a spatial surface and then displaying the estimated surface by constructing isopleth lines. Surface estimation is essentially a problem of interpolation between measurement sites. Since random variation is present in the data and spatial correlation exists as a function of distance between sites, the spatial estimation technique should take these factors into consideration. A method known as kriging is used to estimate the geographical pattern for each concentration and deposition annual summary. It has been been used in other environmental studies (Barnes 1980) and has recently been used to analyze spatial trends in acid precipitation data (Finkelstein and Seilkop, 1981; Finkelstein, 1984; Bilonick, 1983, Eynon and Switzer, 1982). Kriging relies on a model of the spatial covariance structure of the data, called a variogram, and relates the variation of site-to-site differences to the distance between the stations. In the current application, the surface is estimated on a 100km by 100km regular grid over the United States and southern Canada. This regular grid surface estimate is then contoured using a computer algorithm, with the final isopleth lines presented being smoothed by hand.

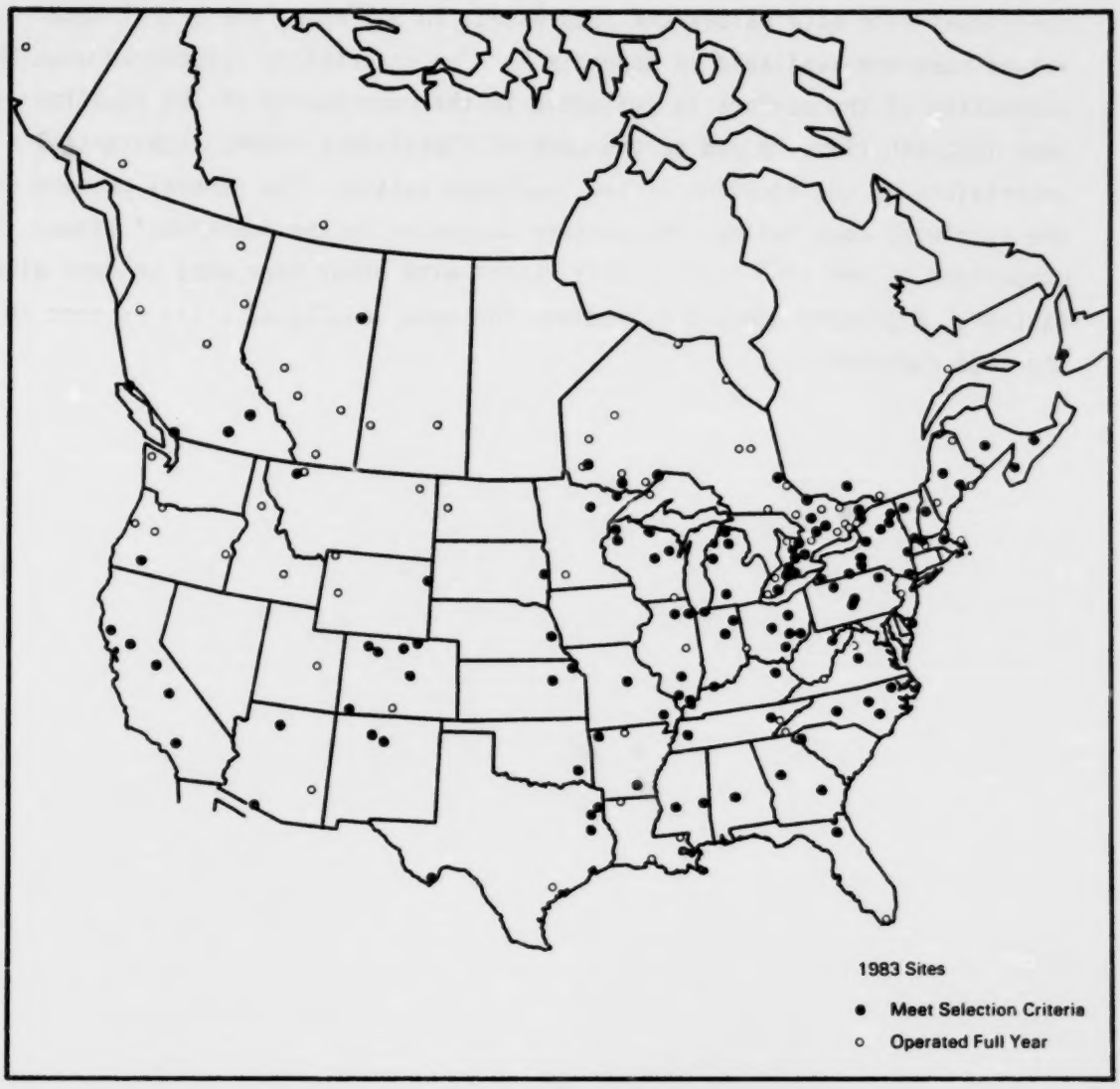

FIGURE 5.1. Geographical distribution of all sites that operated for a full year and that meet the report selection criteria in 1983.

Each isopleth map presents the location of all sites used in the kriging analysis. Because of the density of the sites in eastern North America, the individual site data values are suppressed. In all cases the actual data values used are available in Appendix E. The uncertainty associated with the estimation of the surface is reflected in the uncertainty of the location of each isopleth line. Based on the work of Finkelstein (1984), substantial uncertainty in the location of the isopleths exists. The general pattern of the isopleths does reflect the pattern suggested by the individual sites. A comparison of the 1983 maps in this report with other maps must be done with caution. A primary concern is whether the same density of sites is used for the maps compared.

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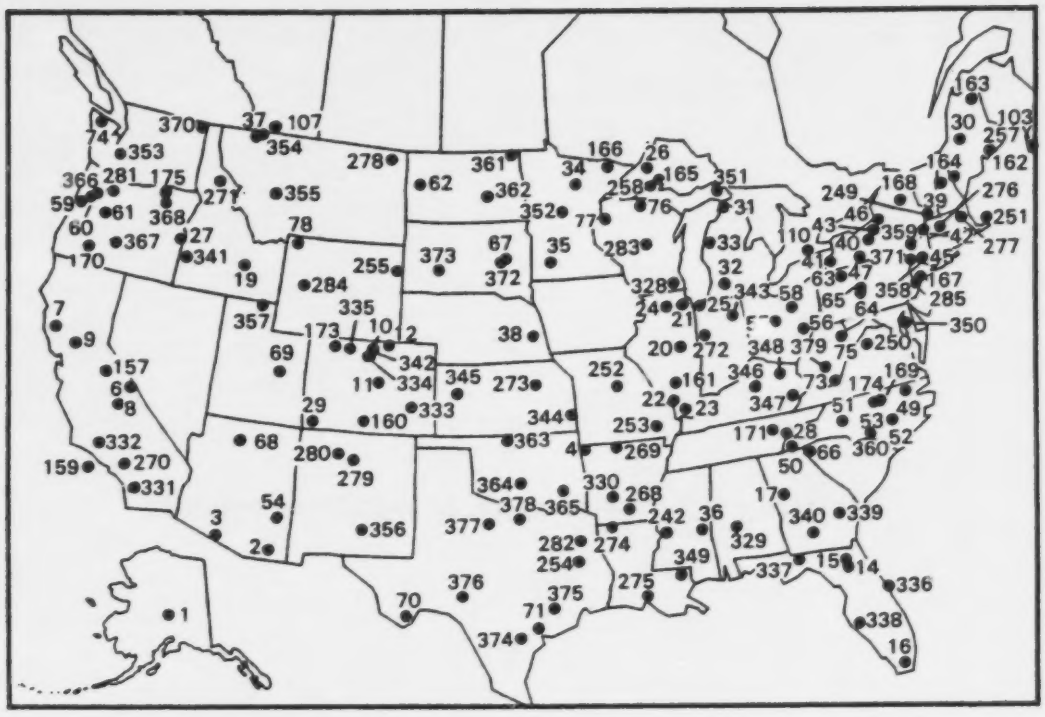
APPENDIX A

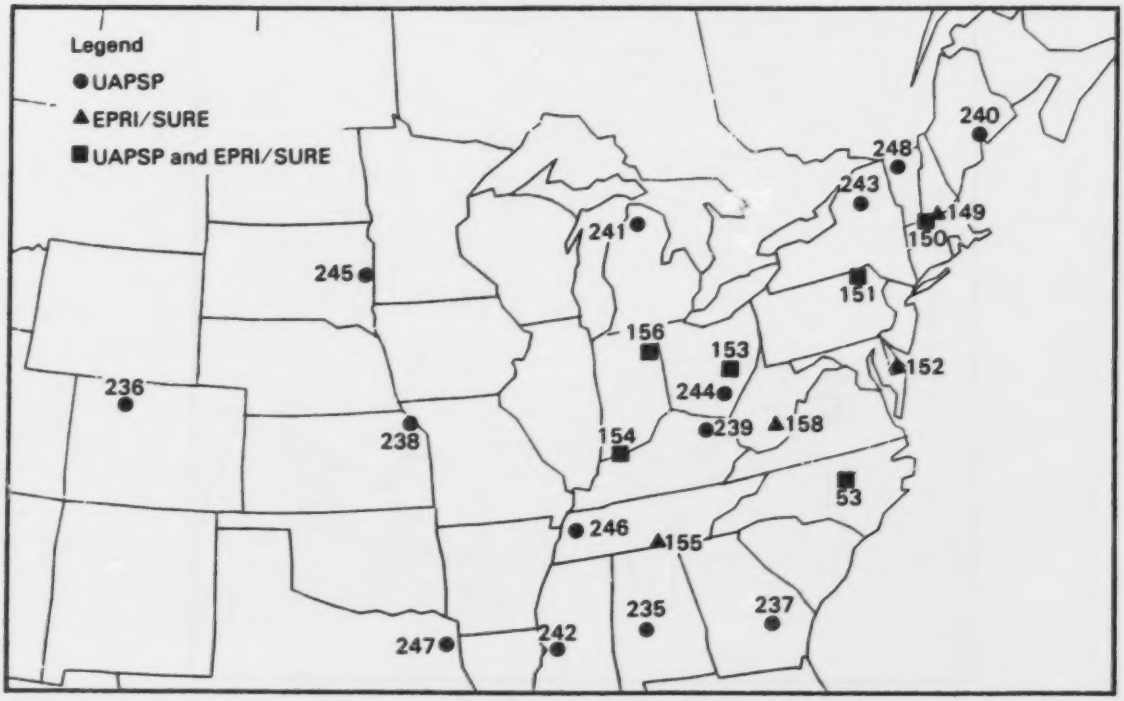
GEOGRAPHIC LOCATION OF SITES IN INDIVIDUAL NETWORKS



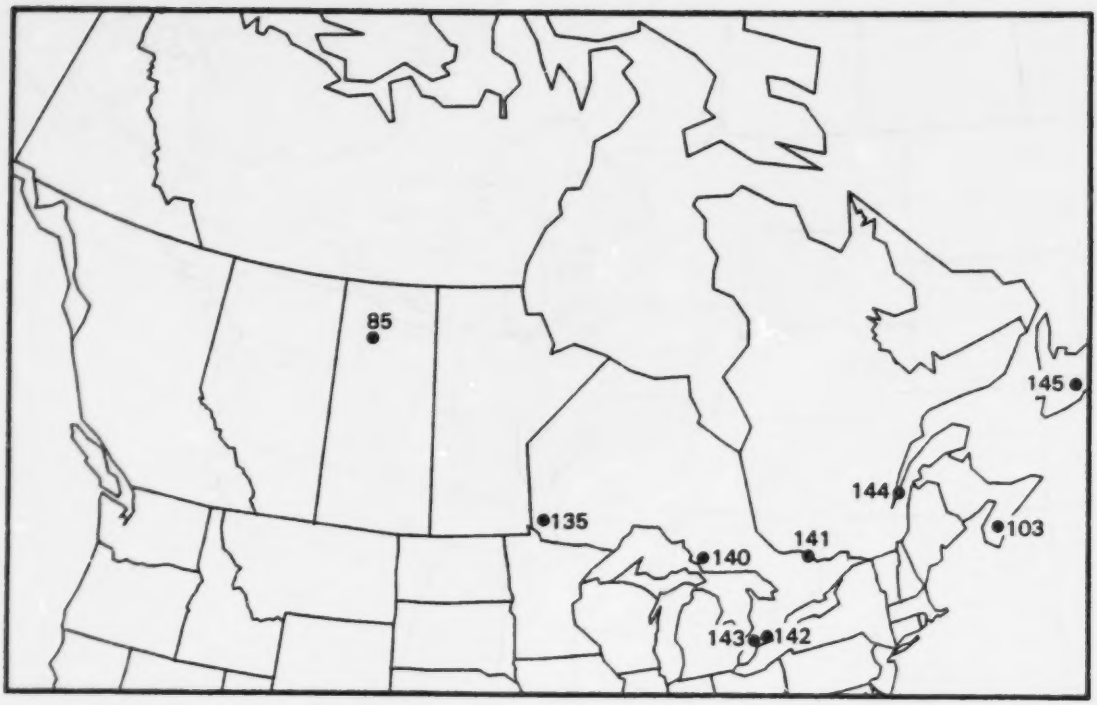
NADP/NTN Sites Identified by ADS Code

MAP3S/PCN Sites Identified by ADS Code

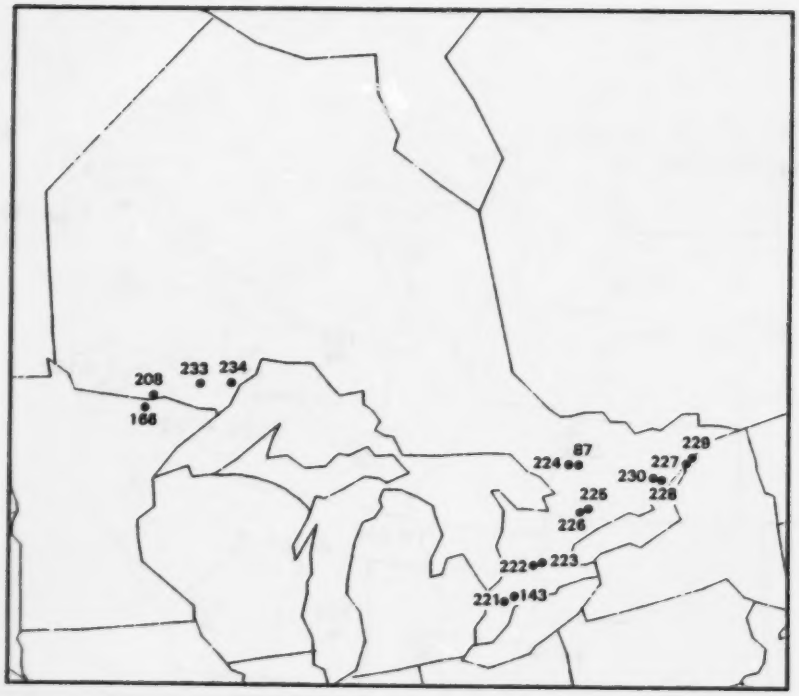
WISC Sites Identified by ADS Code



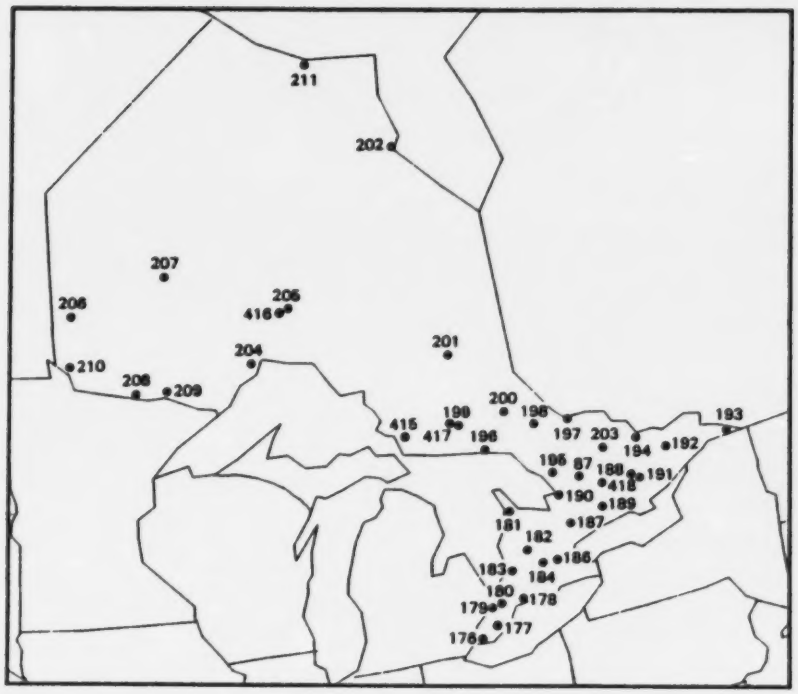
UAPSP Sites Identified by ADS Code



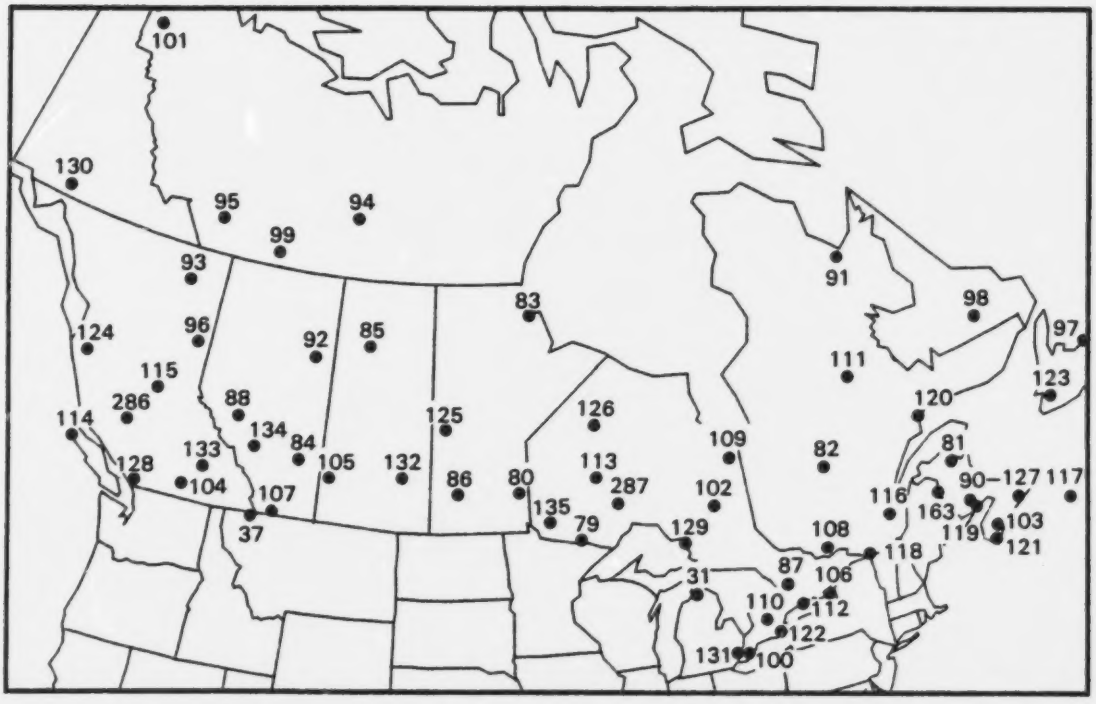
APN Sites Identified by ADS Code



APIOS-D Sites Identified by ADS Code



APIOS-C Sites Identified by ADS Code



CANSAP Sites Identified by ADS Code

APPENDIX B

INVENTORY OF WET DEPOSITION SITES IN ADS ORDERED BY ADS SITE IDENTIFICATION

COLUMN HEADING DEFINITIONS FOR WET DEPOSITION SITES IN ADS

Column	Column Head	Explanation
1	ADS SITE IDENT	The first four characters of the six character site identification. The first three numbers identify a geographic location. The fourth character (the letter a, b, c, ...) identifies colocated samplers at a site.
2	NETWORK	The network which operates the site. (Note all EPRI/SURE sites are identified as UAPSP sites; all NADP and NTN sites are identified as NADP sites.)
3	NET SITE IDENT	The network's 10 character number of name for the site.
4	SITE NAME	The network's name of the site concatenated with the state or province.
5	LATITUDE d m s	The North latitude of the site in degrees, minutes and seconds.
6	LONGITUDE d m s	The West longitude of the site in degrees, minutes and seconds.
7	ELEV M	The elevation, in meters above sea level, of the site.
8	FIRST ACTIVE DATE	The date on which the network stated operating the site.

Inventory of Wet Deposition Sites in ADS
Ordered by ADS Site Identification

15-Jun-1985
Page 1

ADS SITE IDENT	NET WORK	NET SITE IDENT	SITE NAME	LATITUDE d m s	LONGITUDE d m s	ELEVATION (meters)	FIRST ACTIVE DATE
001a	NADP	020390	Mt. Mckinley Park, Alaska	63 43 27	148 57 55	649	Jun 17, 1980
002a	NADP	030180	Tombstone, Arizona	31 42 30	110 03 24	1398	Mar 27, 1979
003a	NADP	030620	Organ Pipe Mon., Arizona	31 57 02	112 48 00	506	Apr 15, 1980
004a	NADP	042700	Fayetteville, Arkansas	36 06 02	94 10 24	391	May 13, 1980
006a	NADP	053460	Bishop, California	37 22 15	118 21 59	1252	Apr 15, 1980
007a	NADP	054540	Hopland (Ukiah), California	39 00 17	123 05 05	253	Oct 3, 1979
008a	NADP	057550	Sequoia Nat. Park, California	36 34 09	118 46 40	1856	Jul 8, 1980
009a	NADP	058840	Davis Site, California	38 32 07	121 46 30	18	Oct 17, 1978
010a	NADP	061910	Rocky Mt. Nat Park, Colorado	40 21 52	105 33 37	2369	May 29, 1980
011a	NADP	062120	Manitou, Colorado	39 06 04	105 05 31	2362	Oct 17, 1978
012a	NADP	062220	Pawnee, Colorado	40 48 23	104 45 15	1641	May 22, 1979
013a	MAP3s/PCN	7	Lewes, Delaware	38 46 00	75 00 00	0	Feb 28, 1978
014a	NADP	100020	Austin-Cary Forest, Florida	29 45 37	82 11 56	46	Oct 10, 1978
015a	NADP	100360	Bradford Forest, Florida	29 58 29	82 11 53	44	Oct 10, 1978
016a	NADP	101190	Everglades Nat. Pa, Florida	25 23 40	80 41 45	2	Jun 17, 1980
017a	NADP	114140	Georgia Station, Georgia	33 10 40	84 24 22	270	Oct 3, 1978
018a	NADP	120080	Mauna Loa, Hawaii	19 32 22	155 34 45	3426	Jun 10, 1980
019a	NADP	130340	Craters of Moon, Idaho	43 27 48	113 33 31	1806	Aug 22, 1980
020a	NADP	141160	Bondville, Illinois	40 03 12	88 22 19	212	Feb 27, 1979
020b	MAP3s/PCN	5	Illinois, Illinois	40 03 12	88 22 19	212	Nov 19, 1977
020c	NADP	141161	Bondville intercom, Illinois	40 03 12	88 22 19	212	Sep 20, 1983
021a	NADP	141980	Argonne, Illinois	41 42 04	87 59 43	229	Mar 11, 1980
022a	NADP	143580	Southern Ill U, Illinois	37 42 36	89 16 08	146	Jul 31, 1979
023a	NADP	146340	Dixon Springs, Illinois	37 26 08	88 40 19	161	Jan 30, 1979
024a	NADP	141800	NIARC, Illinois	41 50 29	88 51 04	265	May 26, 1981
025a	NADP	153420	Indiana Dunes, Indiana	41 37 57	87 05 16	208	Jul 15, 1980
026a	NADP	232570	Isle Royal Park, Michigan	47 54 43	89 09 10	209	Aug 12, 1980
027a	NADP	381120	Vines Hill, Oregon	43 53 57	117 25 37	904	Jul 15, 1980
028a	NADP	441190	Elkmont, Tennessee	35 39 52	83 35 25	640	Aug 12, 1980
029a	NADP	061530	Mesa Verde, Colorado	37 11 56	108 29 26	2172	Apr 28, 1981
030a	NADP	200935	Greenville Station, Maine	45 29 23	69 39 52	322	Nov 20, 1979
031a	NADP	230920	Douglas Lake, Michigan	45 33 40	84 40 42	233	Jul 3, 1979
031b	CANSAP	13 020	Pellston, Michigan	45 33 40	84 40 42	233	Jul 1, 1979
032a	NADP	232660	Kellogg, Michigan	42 24 37	85 23 34	288	Jun 26, 1979
033a	NADP	235340	Wellston, Michigan	44 13 28	85 49 07	292	Oct 10, 1978
034a	NADP	241660	Marcell, Minnesota	47 31 52	93 28 07	431	Jul 6, 1978
035a	NADP	242720	Lamberton, Minnesota	44 14 14	95 18 02	343	Jan 2, 1979
036a	NADP	251460	Meridian, Mississippi	32 20 04	88 44 42	89	Apr 15, 1980
037a	NADP	270570	Glacier Nat Park, Montana	48 30 37	113 59 44	968	Jun 3, 1980
037b	CANSAP	13 010	Glacier Nat Park, Montana	48 30 37	113 59 44	968	Jun 1, 1980
038a	NADP	281520	Mead, Nebraska	41 09 11	96 29 34	352	Jul 25, 1978
039a	NADP	300240	Hubbard Brook, New Hampshire	43 56 35	71 42 12	250	Jul 25, 1978
040a	NADP	330860	Aurora, New York	42 44 02	76 39 35	249	Apr 17, 1979
041a	NADP	331000	Chautauqua, New York	42 17 58	79 23 47	488	Jun 10, 1980
042a	NADP	331220	Knobit, New York	42 22 41	73 30 10	406	Jan 2, 1980
043a	MAP3s/PCN	1	Whiteface, New York	44 23 26	73 51 34	610	Oct 10, 1976
043b	NADP	332021	Whiteface, New York	44 23 26	73 51 34	610	Jul 3, 1984
044a	MAP3s/PCN	2	Ithaca, New York	42 24 03	76 39 12	509	Oct 25, 1976
045a	NADP	335140	Stilwell Lake, New York	41 21 00	74 02 22	186	Jun 26, 1979
046a	NADP	335240	Bennett Bridge, New York	43 31 34	75 56 50	245	Jun 10, 1980
047a	NADP	336500	Jasper, New York	42 06 22	77 32 08	634	Feb 19, 1980
048a	MAP3s/PCN	6	Brookhaven, New York	40 52 00	72 53 00	25	Feb 8, 1978
049a	NADP	340320	Lewiston, North Carolina	36 07 40	77 10 30	26	Oct 31, 1978

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050a	NADP	342500	Coweeta, North Carolina	35 03 38	83 25 50	686	Jul 5, 1978
051a	NADP	343460	Piedmont Station, North Carolina	35 41 48	80 37 22	221	Oct 17, 1978
052a	NADP	343560	Clinton Station, North Carolina	35 01 26	78 16 45	47	Oct 24, 1978
053a	NADP	344160	Finley (A), North Carolina	35 43 43	78 40 52	119	Oct 3, 1978
053b	NADP	344161	Finley (B), North Carolina	35 43 43	78 40 52	119	Oct 3, 1978
053c	UAPSP	08	Raleigh, North Carolina	35 43 43	78 40 48	128	Aug 1, 1978
053d	UAPSP	08 smplr 2	Raleigh-2, North Carolina	35 43 43	78 40 48	128	Aug 1, 1978
054a	NADP	030360	Oliver Knoll, Arizona	33 04 17	109 51 53	1173	Aug 25, 1981
055a	NADP	361760	Delaware, Ohio	40 21 19	83 03 58	285	Oct 3, 1978
056a	NADP	364900	Caldwell, Ohio	39 47 34	81 31 52	276	Sep 26, 1978
057a	MAP3s/PCN	8	Oxford, Ohio	39 31 51	84 43 25	284	Sep 30, 1978
058a	NADP	367160	Wooster, Ohio	40 46 48	81 55 31	315	Sep 26, 1978
059a	NADP	380200	Alsea, Oregon	44 23 13	123 37 22	84	Dec 27, 1979
060a	NADP	380201	Schmidt Farm, Oregon	44 37 35	123 12 50	69	Dec 26, 1979
061a	NADP	381020	H.J. Andrews, Oregon	44 13 23	122 14 32	472	May 13, 1980
062a	NADP	350700	Teddy Roosevelt NP, North Dakota	47 36 09	103 15 54	618	May 5, 1981
063a	NADP	392940	Kane, Pennsylvania	41 35 52	78 46 04	618	Jul 18, 1978
064a	NADP	394200	Leading Ridge, Pennsylvania	40 39 32	77 56 10	282	Apr 25, 1979
065a	MAP3s/PCN	3	Penn State, Pennsylvania	40 47 18	77 56 47	393	Sep 21, 1976
065b	NADP	391520	Penn State, Pennsylvania	40 47 18	77 56 47	393	Jun 7, 1983
065c	NADP	391521	Penn State, Pennsylvania	40 47 18	77 56 47	393	Oct 4, 1983
066a	NADP	421880	Clemson, South Carolina	34 40 28	82 50 09	221	Mar 27, 1979
067a	NADP	430060	Huron, South Dakota	44 23 02	98 13 14	390	Apr 30, 1980
068a	NADP	030370	Grand Canyon, Arizona	36 04 18	112 09 11	2152	Aug 11, 1981
069a	NADP	460280	Cedar Mt, Utah	39 10 15	110 37 05	2356	May 11, 1981
070a	NADP	450425	K-Bar, Texas	29 18 07	103 10 38	1056	Apr 10, 1980
071a	NADP	455350	Victoria, Texas	28 50 43	96 55 12	31	Apr 15, 1980
072a	MAP3s/PCN	4	Virginia, Virginia	38 02 23	78 32 31	172	Dec 11, 1976
073a	NADP	481300	Horton's Station, Virginia	37 20 06	80 33 28	1051	Jul 25, 1978
074a	NADP	491410	Olympic Nat. Park, Washington	47 51 36	123 55 57	176	May 20, 1980
075a	NADP	501860	Parsons, West Virginia	39 05 23	79 39 44	305	Jul 5, 1978
076a	NADP	513640	Trout Lake, Wisconsin	46 03 09	89 39 11	501	Jan 22, 1980
077a	NADP	513700	Spooner, Wisconsin	45 49 21	91 52 30	331	Jun 3, 1980
078a	NADP	520860	Yellowstone, Wyoming	44 55 02	110 25 13	1912	Jun 5, 1980
079a	CANSAP	07 050	Atikokan, Ontario	48 45 00	91 37 00	393	Apr 30, 1977
080a	CANSAP	06 030	Bissett, Manitoba	51 02 00	95 40 00	258	May 1, 1977
081a	CANSAP	09 000	Charlo, New Brunswick	48 00 00	66 20 00	38	May 9, 1977
082a	CANSAP	08 030	Chibougamau, Quebec	49 49 00	74 25 00	402	Apr 8, 1977
083a	CANSAP	06 000	Churchill, Manitoba	58 45 00	94 04 00	29	Jun 1, 1977
084a	CANSAP	04 030	Coronation, Alberta	52 04 00	111 27 00	791	May 1, 1977
085a	CANSAP	05 000	Cree Lake, Saskatchewan	57 21 00	107 08 00	499	May 1, 1977
085b	APN	05 001	Cree Lake, Saskatchewan	57 21 00	107 08 00	499	Jul 28, 1982
086a	CANSAP	06 020	Dauphin, Manitoba	51 06 00	100 03 00	305	Apr 30, 1977
087a	CANSAP	07 060	Dorset (a), Ontario	45 13 00	78 56 00	319	Jul 13, 1979
087b	APIOS-D	3011	Dorset (b), Ontario	45 13 23	78 55 49	320	Jul 14, 1980
087c	APIOS-C	3011	Dorset (c), Ontario	45 13 26	78 55 52	320	May 31, 1980
088a	CANSAP	04 010	Edson, Alberta	53 35 00	116 27 00	925	Jan 2, 1974
089a	CANSAP	01 000	Mould Bay, Northwest Territories	76 14 00	119 20 00	15	Aug 1, 1977
090a	CANSAP	09 010	Acadia Fes, New Brunswick	46 00 00	66 22 00	61	Nov 1, 1979
091a	CANSAP	08 000	Fort Chimo, Quebec	58 06 00	68 25 00	36	May 1, 1977
092a	CANSAP	04 000	Fort McMurray, Alberta	56 39 00	111 13 00	369	Apr 27, 1977
093a	CANSAP	03 000	Fort Nelson, British Columbia	58 50 00	122 36 00	383	Jun 3, 1977
094a	CANSAP	01 020	Fort Reliance, Northwest Territories	62 43 00	109 10 00	164	Jul 6, 1977

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095a	CANSAP	01 030	Fort Simpson, Northwest Territories	61 45 00	121 14 00	169	Dec 28, 1973
096a	CANSAP	03 010	Fort St. John, British Columbia	56 14 00	120 44 00	695	Jun 2, 1977
097a	CANSAP	12 010	Gander, Newfoundland	48 57 00	54 34 00	151	May 9, 1977
098a	CANSAP	12 000	Goose, Newfoundland	53 19 00	60 25 00	36	Jul 8, 1977
099a	CANSAP	01 040	Hay River, Northwest Territories	60 50 00	115 47 00	166	Feb 12, 1980
100a	CANSAP	07 120	Harrow, Ontario	42 02 00	82 54 00	191	Dec 31, 1979
101a	CANSAP	01 010	Inuvik, Northwest Territories	68 18 00	133 29 00	68	Jun 24, 1977
102a	CANSAP	07 030	Kapuskasing, Ontario	49 24 00	82 26 00	227	Oct 16, 1979
103a	CANSAP	10 020	Kejimkujik (a), Nova Scotia	44 25 58	65 12 20	127	Jun 7, 1978
103b	APN	10 019	Kejimkujik (b), Nova Scotia	44 25 58	65 12 20	152	May 11, 1979
103c	NADP	775048	Kejimkujik (c), Nova Scotia	44 25 58	65 12 20	152	May 12, 1981
104a	CANSAP	03 070	Kelowna, British Columbia	49 58 00	119 23 00	430	Apr 30, 1977
105a	CANSAP	05 010	Kindersley, Saskatchewan	51 28 00	109 10 00	683	May 1, 1977
106a	CANSAP	07 070	Kingston, Ontario	44 13 00	76 36 00	92	May 1, 1977
107a	CANSAP	04 040	Lethbridge (a), Alberta	49 38 13	112 47 16	913	Jul 31, 1977
107b	NADP	775070	Lethbridge (b), Alberta	49 38 13	112 47 16	913	Apr 28, 1981
108a	CANSAP	08 050	Maniwaki, Quebec	46 23 00	75 58 00	170	May 10, 1975
109a	CANSAP	07 010	Moosonee, Ontario	51 16 00	80 39 00	10	Jun 1, 1977
110a	CANSAP	07 090	Mount Forest (a), Ontario	43 59 29	80 44 46	415	Jul 17, 1973
110b	NADP	776000	Mount Forest (b), Ontario	43 59 29	80 44 46	410	May 5, 1981
111a	CANSAP	08 010	Nitchequon, Quebec	53 12 00	70 54 00	536	Apr 1, 1977
112a	CANSAP	07 080	Peterborough, Ontario	44 14 00	78 21 00	191	Jun 11, 1977
113a	CANSAP	07 020	Pickle Lake, Ontario	51 28 00	90 12 00	369	Feb 1, 1977
114a	CANSAP	03 040	Port Hardy, British Columbia	50 41 00	127 22 00	22	May 10, 1977
115a	CANSAP	03 030	Prince George, British Columbia	53 53 00	122 40 00	691	Apr 6, 1977
116a	CANSAP	08 040	Quebec City, Quebec	46 48 00	71 24 00	73	May 31, 1977
117a	CANSAP	10 010	Sable Island, Nova Scotia	43 56 00	60 01 00	4	Mar 4, 1975
118a	CANSAP	08 060	St. Hubert, Quebec	45 31 00	73 25 00	27	May 31, 1977
119a	CANSAP	09 020	St. John, New Brunswick	45 19 00	65 53 00	109	May 9, 1977
120a	CANSAP	08 020	Sept Isles, Quebec	50 13 00	66 15 00	55	Apr 1, 1977
121a	CANSAP	10 030	Shelburne, Nova Scotia	43 43 00	65 15 00	30	Jan 1, 1976
122a	CANSAP	07 110	Simcoe, Ontario	42 51 00	80 16 00	241	Jun 1, 1977
123a	CANSAP	12 020	Stephenville, Newfoundland	48 32 00	58 33 00	26	May 1, 1977
124a	CANSAP	03 020	Terrace, British Columbia	54 28 00	128 35 00	217	Apr 14, 1977
125a	CANSAP	06 010	The Pas, Manitoba	53 58 00	101 06 00	273	May 11, 1977
126a	CANSAP	07 000	Trout Lake, Ontario	53 50 00	89 52 00	220	May 9, 1977
127a	CANSAP	10 000	Truro, Nova Scotia	45 22 00	63 16 00	40	May 9, 1977
128a	CANSAP	03 060	Vancouver, British Columbia	49 11 00	123 10 00	2	Aug 1, 1977
129a	CANSAP	07 130	Wawa, Ontario	47 58 00	84 47 00	287	May 11, 1977
130a	CANSAP	02 000	Whitehorse, Yukon Territory	60 43 00	135 04 00	703	Jul 1, 1977
131a	CANSAP	07 150	Windsor, Ontario	42 16 00	82 59 00	190	Jun 1, 1977
132a	CANSAP	05 020	Wynyard, Saskatchewan	51 46 00	104 12 00	561	Mar 1, 1974
133a	CANSAP	03 050	Revelstoke, British Columbia	50 58 00	118 11 00	443	Sep 7, 1979
134a	CANSAP	04 020	Rocky Mtn House, Alberta	52 23 00	114 55 00	988	May 10, 1977
135a	CANSAP	07 023	ELA (a), Ontario	49 40 00	93 43 00	368	Aug 1, 1979
135b	APN	07 024	ELA (b), Ontario	49 40 00	93 43 00	368	Nov 15, 1978
140a	APN	07 054	Algoma, Ontario	47 06 00	84 06 00	265	Sep 1, 1980
141a	APN	07 056	Chalk River, Ontario	46 06 00	77 24 00	122	Nov 1, 1978
142a	APN	07 094	Long Point, Ontario	42 60 00	80 50 00	175	Nov 6, 1978
143a	APN	07 100	Longwoods (a), Ontario	42 53 00	81 29 00	239	Dec 1, 1982
143b	APIOS-D	1011	Longwoods (b), Ontario	42 53 02	81 28 50	239	Jul 14, 1980
144a	APN	08 034	Montmorency, Quebec	47 19 00	71 09 00	640	Dec 1, 1980
145a	APN	12 030	Baie d'Espoir, Newfoundland	47 59 00	55 48 00	23	Nov 24, 1981

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149a	UAPSP	01	Montague, Massachusetts	42 32 00	72 32 08	73	Aug 1, 1978
149b	UAPSP	01 smplr 2	Montague-2, Massachusetts	42 32 00	72 32 08	73	Aug 1, 1978
150a	UAPSP	01	Turners Falls, Massachusetts	42 35 50	72 32 55	98	Aug 1, 1980
151a	UAPSP	02	Scranton, Pennsylvania	41 34 30	75 59 40	335	Aug 1, 1978
151b	UAPSP	02 smplr 2	Scranton-2, Pennsylvania	41 34 30	75 59 40	335	Aug 1, 1978
152a	UAPSP	03	Indian River, Delaware	38 34 50	75 14 45	6	Aug 1, 1978
152b	UAPSP	03 smplr 2	Indian River-2, Delaware	38 34 50	75 14 45	6	Aug 1, 1978
153a	UAPSP	04	Zanesville, Ohio	39 59 02	82 01 05	250	Aug 1, 1978
153b	UAPSP	04 smplr 2	Zanesville-2, Ohio	39 59 02	82 01 05	250	Aug 1, 1978
154a	UAPSP	05	Rockport, Indiana	37 52 50	87 07 47	131	Aug 1, 1978
154b	UAPSP	05 smplr 2	Rockport-2, Indiana	37 52 50	87 07 47	131	Aug 1, 1978
155a	UAPSP	06	Giles County, Tennessee	35 17 05	86 54 11	244	Aug 1, 1978
155b	UAPSP	06 smplr 2	Giles County-2, Tennessee	35 17 05	86 54 11	244	Aug 1, 1978
155c	TVA	GILES CNTY	GILES COUNTY, Tennessee	35 17 05	86 54 11	244	Dec 26, 1978
156a	UAPSP	07	Fort Wayne, Indiana	41 02 39	85 19 08	244	Aug 1, 1978
156b	UAPSP	07 smplr 2	Fort Wayne-2, Indiana	41 02 39	85 19 08	244	Aug 1, 1978
157a	NADP	058850	Yosemite, California	37 47 49	119 51 30	1408	Dec 8, 1981
158a	UAPSP	09	Lewisburg, West Virginia	37 50 50	80 25 00	701	Aug 1, 1978
158b	UAPSP	09 smplr 2	Lewisburg-2, West Virginia	37 50 50	80 25 00	701	Aug 1, 1978
159a	NADP	058500	Channel Islands, California	34 00 57	119 21 43	49	Jul 22, 1980
160a	NADP	060060	Alamosa, Colorado	37 26 36	105 51 55	2298	Apr 22, 1980
161a	NADP	144740	Salem, Illinois	38 38 36	88 58 01	173	Apr 15, 1980
162a	NADP	200010	Acadia < 11/81, Maine	44 24 30	68 14 42	37	Nov 18, 1980
163a	NADP	200045	Caribou (a), Maine	46 52 08	68 00 55	191	Apr 14, 1980
163b	CANSAP	13 000	Caribou (b), Maine	46 52 08	68 00 55	191	Apr 1, 1980
164a	NADP	200277	Bridgton, Maine	44 06 27	70 43 44	222	Sep 30, 1980
165a	NADP	232240	Houghton, Michigan	47 13 33	88 37 50	193	Oct 26, 1980
166a	NADP	241840	Fernberg, Minnesota	47 56 45	91 29 43	524	Nov 18, 1980
166b	APIOS-D	6051	Fernberg, Minnesota	47 56 51	91 29 26	506	Oct 1, 1981
167a	NADP	312980	Princeton, New Jersey	40 20 44	74 37 01	37	Aug 6, 1980
168a	NADP	332020	Huntington, New York	43 58 19	74 13 25	500	Oct 31, 1978
169a	NADP	343310	R Triangle Park, North Carolina	35 53 47	78 51 38	94	Apr 15, 1980
170a	NADP	380840	Lost Creek Dam, Oregon	42 40 04	122 40 59	475	Oct 21, 1980
171a	NADP	440040	Walker Branch, Tennessee	35 57 41	84 17 14	341	Mar 11, 1980
171b	MAP3s/PCN	9	Oak Ridge, Tennessee	35 57 41	84 17 14	341	Jan 6, 1981
172a	NADP	530190	American Samoa, American Samoa	-14 15 08	170 33 48	73	May 20, 1980
173a	NADP	061560	Sand Spring, Colorado	40 30 27	107 42 07	1998	Mar 20, 1979
174a	NADP	341180	R Triangle Inst, North Carolina	35 54 09	78 52 12	99	Oct 14, 1980
175a	NADP	381780	Pendleton, Oregon	45 41 23	118 50 16	542	Apr 15, 1980
176a	APIOS-C	1041	Colchester, Ontario	41 59 15	82 55 41	183	Sep 2, 1980
177a	APIOS-C	1051	Merlin, Ontario	42 14 47	82 13 30	191	Sep 2, 1980
178a	APIOS-C	1061	Port Stanley, Ontario	42 40 22	81 09 55	213	Sep 2, 1980
179a	APIOS-C	1071	Wilkesport, Ontario	42 42 11	82 21 13	183	Sep 3, 1980
180a	APIOS-C	1081	Alvinston, Ontario	42 49 36	81 50 04	221	Sep 5, 1980
181a	APIOS-C	1091	Shallow Lake, Ontario	44 34 54	81 05 24	229	Sep 30, 1980
182a	APIOS-C	1101	Palmerston, Ontario	43 48 19	80 54 12	389	Sep 2, 1980
183a	APIOS-C	1191	Huron Park, Ontario	43 17 28	81 30 03	250	Oct 2, 1981
184a	APIOS-C	2021	Waterloo, Ontario	43 28 39	80 35 09	343	Sep 1, 1980
186a	APIOS-C	3051	Milton, Ontario	43 31 05	79 55 54	221	Sep 2, 1980
187a	APIOS-C	3061	Uxbridge, Ontario	44 12 46	79 12 38	244	Sep 2, 1980
188a	APIOS-C	3071	Wilberforce, Ontario	45 00 54	78 12 58	396	Sep 2, 1980
189a	APIOS-C	3081	Campbellford, Ontario	44 17 28	77 47 33	175	Sep 4, 1980
190a	APIOS-C	3101	Coldwater, Ontario	44 37 31	79 32 08	280	Aug 31, 1981

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191a	APIOS-C	4051	Kaladar, Ontario	44 41 31	77 09 18	244	Sep 2, 1980
192a	APIOS-C	4061	Smith's Falls, Ontario	44 56 41	75 57 48	122	Sep 3, 1980
193a	APIOS-C	4071	Dalhousie Mills, Ontario	45 19 00	74 28 13	69	Sep 3, 1980
194a	APIOS-C	4081	Golden Lake, Ontario	45 36 48	77 12 03	160	Sep 2, 1980
195a	APIOS-C	5011	McKellar, Ontario	45 30 57	79 55 19	244	Aug 25, 1980
196a	APIOS-C	5021	Killarney, Ontario	45 59 26	81 29 18	183	May 28, 1980
197a	APIOS-C	5031	Mattawa, Ontario	46 16 45	78 49 19	198	Aug 22, 1980
198a	APIOS-C	5041	Bear Island, Ontario	46 58 22	80 04 40	305	May 29, 1980
199a	APIOS-C	5051	Ramsey, Ontario	47 26 33	82 20 14	427	May 29, 1980
200a	APIOS-C	5061	Gowganda, Ontario	47 39 04	80 46 32	343	Jul 3, 1980
201a	APIOS-C	5071	Moonbeam, Ontario	49 19 16	82 08 46	244	Sep 2, 1980
202a	APIOS-C	5081	Attawapiskat, Ontario	52 56 00	82 24 00	9	Sep 2, 1980
203a	APIOS-C	5091	Whitney, Ontario	45 32 21	78 15 35	412	Sep 2, 1980
204a	APIOS-C	6011	Dorion, Ontario	48 50 33	88 36 45	244	Sep 2, 1980
205a	APIOS-C	6021	Nakina, Ontario	50 10 38	86 42 40	320	Sep 2, 1980
206a	APIOS-C	6031	Ear Falls, Ontario	50 38 31	93 13 13	350	Sep 2, 1980
207a	APIOS-C	6041	Pickle Lake, Ontario	51 27 41	90 12 04	360	Jul 26, 1980
208a	APIOS-C	6061	Lac Le Croix (a), Ontario	48 21 14	92 12 32	368	Dec 1, 1981
208b	APIOS-D	6061	Lac Le Croix (b), Ontario	48 21 14	92 12 32	368	Sep 23, 1981
209a	APIOS-C	6071	Quetico Centre, Ontario	48 44 24	91 12 08	420	Nov 30, 1981
210a	APIOS-C	6091	Expt. Lake Area, Ontario	49 39 22	93 43 28	123	Oct 6, 1981
211a	APIOS-C	6101	Winisk, Ontario	55 12 00	85 08 00	9	Jul 20, 1982
221a	APIOS-D	1021	Melbourne, Ontario	42 47 15	81 33 23	213	Nov 3, 1980
222a	APIOS-D	1031	North Easthope, Ontario	43 24 21	80 53 35	375	Nov 1, 1980
223a	APIOS-D	2011	Wellesley, Ontario	43 28 13	80 45 35	344	Jan 27, 1981
224a	APIOS-D	3021	Withgrove, Ontario	45 12 01	79 04 14	335	Jan 26, 1981
225a	APIOS-D	3031	Balsam Lake, Ontario	44 37 35	78 51 22	259	Nov 21, 1980
226a	APIOS-D	3041	Raven Lake, Ontario	44 36 40	78 54 43	274	Feb 1, 1981
227a	APIOS-D	4011	Charleston Lake, Ontario	44 29 54	76 02 30	92	Jan 25, 1981
228a	APIOS-D	4021	Railton, Ontario	44 22 34	76 35 33	137	Jul 14, 1980
229a	APIOS-D	4031	Graham Lake, Ontario	44 35 22	75 51 44	130	Oct 25, 1980
230a	APIOS-D	4041	Whitman Creek, Ontario	44 29 07	76 49 19	137	Oct 24, 1980
233a	APIOS-D	6071	Quetico Centre, Ontario	48 24 44	91 12 08	420	Oct 16, 1981
234a	APIOS-D	6081	Forbes Twsp., Ontario	48 34 58	89 38 56	324	Sep 23, 1981
235a	UAPSP	15	Selma, Alabama	32 28 25	87 05 03	42	Oct 17, 1981
235b	UAPSP	15 smplr 2	Selma-2, Alabama	32 28 25	87 05 03	42	Oct 17, 1981
236a	UAPSP	23	Yampa, Colorado	40 10 00	106 55 00	2390	Aug 12, 1982
237a	UAPSP	14	Uvalda, Georgia	32 03 18	82 28 25	64	Oct 13, 1981
237b	UAPSP	14 smplr 2	Uvalda-2, Georgia	32 03 18	82 28 25	64	Oct 9, 1983
238a	UAPSP	18	Lancaster, Kansas	39 34 10	95 18 17	346	Nov 5, 1981
238b	UAPSP	18 smplr 2	Lancaster-2, Kansas	39 34 10	95 18 17	346	Oct 12, 1983
239a	UAPSP	11	Morehead, Kentucky	38 08 10	83 27 17	235	Oct 24, 1981
240a	UAPSP	13	Winterport, Maine	44 37 05	68 58 30	67	Oct 21, 1981
241a	UAPSP	10	Gaylord, Michigan	44 56 58	84 38 30	473	Nov 7, 1981
242a	UAPSP	16	Clinton, Mississippi	32 21 06	90 17 15	76	Oct 20, 1981
242b	NADP	251080	Clinton, Mississippi	32 18 22	90 18 54	90	Jul 11, 1984
243a	UAPSP	21	Big Moose, New York	43 49 03	74 54 08	603	Oct 26, 1981
244a	UAPSP	22	McArthur, Ohio	39 14 06	82 28 41	224	Oct 1, 1981
245a	UAPSP	19	Brookings, South Dakota	44 19 54	96 49 45	499	Oct 30, 1981
245b	UAPSP	19 smplr 2	Brookings-2, South Dakota	44 19 54	96 49 45	499	Nov 14, 1981
246a	UAPSP	12	Alamo, Tennessee	35 47 32	89 08 03	112	Oct 23, 1981
247a	UAPSP	17	Marshall, Texas	32 39 58	94 25 06	81	Oct 25, 1981
248a	UAPSP	20	Underhill Center, Vermont	44 31 42	72 52 08	442	Oct 1, 1981

ADS SITE IDENT	NET WORK	NET SITE IDENT	SITE NAME	LATITUDE d m s	LONGITUDE d m s	ELEVATION (meters)	FIRST ACTIVE DATE
248b	UAPSP	20 smplr 2	Underhill Center-2, Vermont	44 31 42	72 52 08	442	Oct 9, 1983
249a	NADP	470100	Bennington, Vermont	42 52 34	73 09 48	305	Apr 28, 1981
250a	NADP	482890	Big Meadows, Virginia	38 30 51	78 25 45	1047	May 12, 1981
251a	NADP	220155	NACL, Massachusetts	41 58 23	70 01 12	34	Dec 15, 1981
252a	NADP	260380	Ashland, Missouri	38 45 13	92 11 55	239	Oct 20, 1981
253a	NADP	260560	University Forest, Missouri	36 54 39	90 19 06	154	Oct 27, 1981
254a	NADP	453800	Forest Seed Ctr, Texas	31 33 38	94 51 39	84	Aug 18, 1981
255a	NADP	520820	Newcastle, Wyoming	43 52 24	104 11 32	1466	Aug 11, 1981
257a	NADP	200011	Acadia > 11/81, Maine	44 22 27	68 15 39	122	Nov 3, 1981
258a	NADP	232241	Chassell, Michigan	47 06 03	88 33 10	279	Feb 15, 1983
259a	EPA-IV	ALDEWEYARM	Dewey Armory, Alabama	32 34 03	85 55 54	153	Mar 30, 1982
260a	EPA-IV	KYGRAYSONL	Grayson, Kentucky	38 14 00	82 59 00	213	Apr 6, 1982
261a	EPA-IV	GAHIAWASSE	Hiawassee, Georgia	34 50 33	83 43 03	636	May 4, 1982
262a	EPA-IV	GASUMMERVI	Summerville, Georgia	34 28 22	85 24 27	202	May 25, 1982
263a	EPA-IV	MSUNIVERSI	University, Mississippi	34 23 00	89 32 00	35	May 1, 1982
264a	EPA-IV	TNCENTERHI	Center Hill, Tennessee	36 02 20	85 43 59	305	Aug 26, 1982
265a	EPA-IV	KYMAMMOTHC	Mammoth Cave, Kentucky	37 13 00	86 04 00	219	Oct 26, 1982
266a	EPA-IV	SCLONGCREE	Long Creek, South Carolina	34 48 19	83 14 17	602	Nov 9, 1982
267a	EPA-IV	SCDELTAOOO	Delta, South Carolina	34 32 22	81 33 40	113	Dec 14, 1982
268a	NADP	040260	Warren 2WSW, Arkansas	33 36 15	92 06 02	78	May 25, 1982
269a	NADP	041620	Buffalo River, Arkansas	36 05 00	92 33 00	265	Jul 13, 1982
270a	NADP	054200	Tanbark Flat, California	34 12 27	117 45 39	853	Jan 12, 1982
271a	NADP	130480	Headquarters, Idaho	46 37 40	115 49 10	969	Jul 20, 1982
272a	NADP	154100	Purdue U Ag Farm, Indiana	40 28 17	85 59 18	215	Jul 13, 1982
273a	NADP	173120	Konza Prairie, Kansas	39 06 08	96 36 33	344	Aug 17, 1982
274a	NADP	190620	N La Hill Farm, Louisiana	32 45 04	93 03 02	61	Nov 16, 1982
275a	NADP	191260	Iberia, Louisiana	29 55 47	91 42 54	6	Nov 16, 1982
276a	NADP	220815	Cadwell, Massachusetts	42 21 40	72 23 27	283	Mar 5, 1982
277a	NADP	221325	East, Massachusetts	42 23 02	71 12 53	20	Feb 2, 1982
278a	NADP	271340	Give Out Morgan, Montana	48 28 42	105 11 39	817	Sep 14, 1982
279a	NADP	320720	Bandelier, New Mexico	35 46 54	106 16 03	1998	Jun 22, 1982
280a	NADP	320980	CUBA, New Mexico	36 02 27	106 58 17	2124	Feb 3, 1982
281a	NADP	380260	Bull Run, Oregon	45 27 00	122 08 50	267	Jul 13, 1982
282a	NADP	452180	Longview, Texas	32 22 53	94 42 49	107	Jun 29, 1982
283a	NADP	512800	Lake Dubay, Wisconsin	44 39 53	89 39 08	338	Jun 29, 1982
284a	NADP	520680	Pinedale, Wyoming	42 55 44	109 47 12	2388	Jan 26, 1982
285a	NADP	312981	Washington Xing, New Jersey	40 18 54	74 51 17	72	Aug 4, 1981
286a	CANSAP	03 080	Puntzi Mountain, British Columbia	52 07 00	124 05 00	911	Apr 1, 1974
287a	CANSAP	07 140	Armstrong, Ontario	50 17 00	88 54 00	323	Feb 25, 1974
288a	GLAD	142360010	Evanston, Illinois	42 03 36	87 40 25	183	Jul 7, 1981
289a	GLAD	141220043	Jardine Plant, Illinois	41 53 41	87 36 23	194	Jun 2, 1981
290a	GLAD	141220034	South Water Plant, Illinois	41 45 25	87 32 45	187	Jun 2, 1981
291a	GLAD	230420002	Bay City, Michigan	43 39 30	83 53 45	187	Mar 24, 1981
292a	GLAD	230860001	Beaver Island, Michigan	45 44 30	85 30 30	183	Sep 22, 1981
293a	GLAD	230460004	Benton Harbor, Michigan	42 07 00	86 28 30	191	Feb 3, 1981
294a	GLAD	232740001	Cooper Harbor, Michigan	47 28 00	87 52 00	191	Jun 23, 1981
295a	GLAD	232740002	Eagle Harbor, Michigan	47 27 28	88 09 42	188	Jun 14, 1983
296a	GLAD	232940001	Empire, Michigan	44 51 16	86 02 08	233	Jun 21, 1981
297a	GLAD	231420008	Escanaba, Michigan	45 44 30	87 03 30	196	Jun 9, 1981
298a	GLAD	230080001	Grand Marais, Michigan	46 40 00	85 58 00	191	Jul 14, 1981
299a	GLAD	233660002	Mount Clemens, Michigan	42 34 00	82 50 40	176	Apr 20, 1982
300a	GLAD	233660002	Mount Clemens, Michigan	42 37 02	82 53 25	187	Mar 24, 1981
301a	GLAD	233760007	Muskegon, Michigan	43 08 40	86 16 20	190	Mar 24, 1981

ADS SITE IDENT	NET WORK	NET SITE IDENT	SITE NAME	LATITUDE d m s	LONGITUDE d m s	ELEVATION (meters)	FIRST ACTIVE DATE
302a	GLAD	234060002	Ontonagon, Michigan	46 49 20	89 38 00	194	Jul 7, 1981
303a	GLAD	232340002	Port Austin, Michigan	44 02 50	82 59 40	185	Apr 7, 1981
304a	GLAD	234800001	Port Sanilac, Michigan	43 26 20	82 32 32	190	Mar 17, 1981
305a	GLAD	234110002	Tawas Point, Michigan	44 16 00	83 26 30	179	May 5, 1981
306a	GLAD	241040029	Duluth, Minnesota	46 46 07	92 05 15	198	Jul 21, 1981
307a	GLAD	241840016	Gooseberry Falls, Minnesota	46 24 40	91 28 48	206	Sep 22, 1981
308a	GLAD	240900001	Gull Lake, Minnesota	46 24 40	94 21 15	383	Jan 19, 1982
309a	GLAD	240800009	Hovland, Minnesota	47 50 50	89 57 45	224	Jul 21, 1981
310a	GLAD	333340099	Cape Vincent, New York	44 05 30	76 20 30	80	Jan 19, 1982
311a	GLAD	331600099	Dunkirk, New York	42 30 13	79 19 26	182	Jan 19, 1982
312a	GLAD	330860099	Fair Haven, New York	43 19 08	76 42 11	74	Jan 4, 1982
313a	GLAD	332000099	Grand Island, New York	43 03 30	78 58 00	173	Jan 19, 1982
314a	GLAD	334720099	Olcott, New York	43 20 27	78 41 35	84	Jan 19, 1982
315a	GLAD	335760099	Rochester, New York	43 13 48	77 34 45	81	Jan 19, 1982
316a	GLAD	360200001	Ashtabula, Ohio	41 54 30	80 46 30	179	Jan 26, 1982
317a	GLAD	362100001	Fairport Harbor, Ohio	41 45 17	81 16 25	203	Jan 27, 1981
318a	GLAD	363620014	Lorain, Ohio	41 28 20	82 08 30	192	Feb 17, 1981
319a	GLAD	365260001	Put-in-Bay, Ohio	41 39 29	82 49 40	177	Feb 17, 1981
320a	GLAD	365200007	Toledo, Ohio	41 41 30	83 24 32	177	Jan 27, 1981
321a	GLAD	393060099	Erie, Pennsylvania	42 07 48	80 06 03	183	Jan 18, 1982
322a	GLAD	510180001	Cornucopia, Wisconsin	46 51 44	91 08 13	195	Feb 17, 1981
323a	GLAD	510360001	Green Bay, Wisconsin	44 31 47	87 55 11	201	Mar 31, 1981
324a	GLAD	513600001	Manitowoc, Wisconsin	44 03 56	87 39 23	189	Jul 7, 1981
325a	GLAD	512200035	Milwaukee, Wisconsin	43 04 31	87 53 02	205	Mar 17, 1981
326a	WISC	ROUND	Round Lake, Wisconsin	46 13 24	91 56 10	32	Aug 30, 1982
327a	WISC	LEGEND	Legend Lake, Wisconsin	44 53 30	88 37 47	27	Apr 22, 1982
328a	WISC	GENEVA	Geneva Lake, Wisconsin	42 34 48	88 30 03	27	Mar 28, 1982
328b	NADP	513680	Lake Geneva, Wisconsin	88 30 01	42 34 49	290	Jun 5, 1984
329a	NADP	011000	Blackbelt, Alabama	32 27 30	87 14 31	58	Aug 31, 1983
330a	NADP	040380	Caddo Valley, Arkansas	34 10 46	93 05 55	71	Dec 30, 1983
331a	NADP	056820	Palomar Mountain, California	33 18 36	116 51 13	1686	Mar 15, 1983
332a	NADP	058501	Chuchupate, California	34 48 22	119 00 38	1623	Aug 2, 1983
333a	NADP	060180	Las Animas, Colorado	38 07 04	103 18 57	1212	Oct 4, 1983
334a	NADP	060220	Hiwot Saddle, Colorado	40 03 19	105 35 18	3520	Jun 5, 1984
335a	NADP	061920	Buffalo Pass, Colorado	40 32 20	106 40 35	3215	Feb 7, 1984
336a	NADP	100380	CIFANT, Florida	28 32 34	80 38 40	2	Aug 2, 1983
337a	NADP	101400	Quincy, Florida	30 32 56	84 35 50	69	Mar 13, 1984
338a	NADP	104100	Verna Well Field, Florida	27 22 48	82 17 02	25	Aug 25, 1983
339a	NADP	112040	Bellville, Georgia	32 08 30	81 58 18	61	Apr 26, 1983
340a	NADP	115000	Tifton, ARS, Georgia	31 28 25	83 31 59	104	Oct 4, 1983
341a	NADP	131180	Reynolds Creek, Idaho	43 12 18	116 44 57	1198	Nov 22, 1983
342a	NADP	061911	Loch Vale, Colorado	40 17 16	105 39 17	3159	Aug 16, 1983
343a	NADP	152020	Huntington, Indiana	40 50 24	85 27 50	244	Aug 22, 1983
344a	NADP	170740	Farlington, Kansas	37 39 04	94 48 24	282	Mar 27, 1984
345a	NADP	173280	Scott Lake, Kansas	38 40 16	100 54 59	863	Mar 27, 1984
346a	NADP	180360	Perryville, Kentucky	37 40 39	84 57 25	277	Nov 29, 1983
347a	NADP	182260	Lilley Cornett Woo, Kentucky	37 04 40	82 59 37	335	Sep 6, 1983
348a	NADP	183560	Clark State Fish H, Kentucky	38 07 06	83 32 49	204	Aug 30, 1983
349a	NADP	193060	Southeast, Louisiana	30 48 41	90 10 51	78	Jan 18, 1983
350a	NADP	211320	Wye, Maryland	38 54 47	76 09 09	6	Mar 8, 1983
351a	NADP	230980	Raco, Michigan	46 22 26	84 44 31	260	May 1, 1984
352a	NADP	242360	Camp Ripley, Minnesota	46 14 58	94 29 50	410	Oct 18, 1983
353a	NADP	492180	La Grande, Washington	46 50 09	122 17 13	607	Apr 24, 1984

Inventory of Wet Deposition Sites in ADS
Ordered by ADS Site Identification

ADS SITE IDENT	NET WORK	NET SITE IDENT	SITE NAME	LATITUDE d m s	LONGITUDE d m s	ELEVATION (meters)	FIRST ACTIVE DATE
354a	NADP	270560	St. Mary Ranger St, Montana	48 44 28	113 25 48	1391	Jan 25, 1983
355a	NADP	270760	Clancy, Montana	46 29 07	112 04 04	1489	Jan 24, 1984
356a	NADP	320840	Mayhill, New Mexico	32 54 00	105 28 00	2012	Jan 24, 1984
357a	NADP	460120	Logan, Utah	41 39 30	111 53 49	1370	Dec 6, 1983
358a	NADP	335141	West Point, New York	41 21 03	74 02 54	203	Sep 13, 1983
359a	NADP	336840	Biscuit Brook, New York	41 59 39	74 30 13	634	Oct 11, 1983
360a	NADP	343600	Jordan Creek, North Carolina	34 58 16	79 31 41	132	Oct 18, 1983
361a	NADP	350880	Icelandic, North Dakota	48 46 57	97 45 15	308	Oct 25, 1983
362a	NADP	351180	Woodworth, North Dakota	47 07 22	99 14 02	0	Nov 29, 1983
363a	NADP	370060	Salt Plains Nation, Oklahoma	36 48 08	98 12 37	346	Dec 13, 1983
364a	NADP	371740	Great Plains Apiar, Oklahoma	34 58 48	97 31 16	330	Mar 29, 1983
365a	NADP	372580	Clayton Lake, Oklahoma	34 31 42	95 21 10	348	Feb 1, 1983
366a	NADP	380202	Hyslop, Oregon	44 38 04	123 11 24	69	Apr 26, 1983
367a	NADP	380980	Silver Lake Ranger, Oregon	43 07 22	121 03 28	1334	Aug 23, 1983
368a	NADP	381800	Starkey Experiment, Oregon	45 13 32	118 30 42	1250	Mar 6, 1984
369a	NADP	491940	Marblemount, Washington	00 00 00	00 00 00	796	Feb 7, 1984
370a	NADP	491540	Sullivan Lake, Washington	48 50 32	117 17 04	0	May 8, 1984
371a	NADP	397220	Milford, Pennsylvania	41 19 39	74 49 13	212	Dec 27, 1983
372a	NADP	430061	Huron Well Field, South Dakota	44 21 18	98 17 38	398	Nov 29, 1983
373a	NADP	430880	Cottonwood, South Dakota	43 56 57	101 51 30	733	Oct 11, 1983
374a	NADP	450350	Beeville, Texas	28 27 55	97 42 40	75	Feb 7, 1984
375a	NADP	451040	Attwater Prairie C, Texas	29 41 20	96 16 29	0	Jul 3, 1984
376a	NADP	451650	Sonora, Texas	30 15 40	100 33 18	690	Jun 26, 1984
377a	NADP	455180	Throckmorton, Texas	33 16 28	99 12 56	424	May 29, 1984
378a	NADP	455640	LBJ National Grass, Texas	33 23 30	97 38 23	312	Sep 20, 1983
379a	NADP	500460	Babcock State Park, West Virginia	37 58 47	80 56 59	631	Sep 6, 1983
380a	GLAD	337240099	SODUS POINT, New York	43 16 24	76 58 32	78	Nov 13, 1984
381a	GLAD	336240099	SILVER CREEK, New York	42 34 49	79 08 02	199	Oct 16, 1984
382a	GLAD	361480001	CONNEAUT, Ohio	41 57 36	80 34 23	201	Oct 2, 1984
383a	TVA	ALLEN 7	ALLEN 7, Tennessee	35 05 49	90 04 56	73	Nov 28, 1978
384a	TVA	BULL RUN 8	BULL RUN 8, Tennessee	35 58 52	84 13 32	250	Nov 30, 1978
385a	TVA	COLBERT 1	COLBERT 1, Alabama	34 46 13	87 50 09	152	Dec 26, 1978
386a	TVA	COLBERT 8	COLBERT 8, Alabama	34 46 18	87 54 05	146	Nov 30, 1978
387a	TVA	CUMBERLA 1	CUMBERLAND 1, Tennessee	36 26 23	87 36 17	180	Jun 28, 1977
388a	TVA	CUMBERLA 3	CUMBERLAND 3, Tennessee	36 36 05	87 27 03	165	Jun 28, 1977
389a	TVA	CUMBERLA 7	CUMBERLAND 7, Tennessee	36 19 29	87 41 30	195	Jun 29, 1977
390a	TVA	CUMBERLA 8	CUMBERLAND 8, Tennessee	36 25 58	87 42 30	130	Jun 29, 1977
391a	TVA	CUMBERLA14	CUMBERLAND 14, Tennessee	36 16 20	87 45 53	0	Jun 29, 1977
392a	TVA	CUMBERLA16	CUMBERLAND 16, Tennessee	36 31 14	87 33 48	174	Jun 28, 1977
393a	TVA	CUMBERLA18	CUMBERLAND 18, Tennessee	36 27 58	87 34 52	216	Jun 28, 1977
394a	TVA	CUMBERLA20	CUMBERLAND 20, Kentucky	36 50 17	87 10 12	0	Jul 1, 1977
395a	TVA	CUMBERLA21	CUMBERLAND 21, Tennessee	36 10 13	87 50 50	0	Jul 1, 1977
396a	TVA	CUMBERLA22	CUMBERLAND 22, Tennessee	36 26 07	87 36 08	178	Jul 1, 1977
397a	TVA	GALLATIN 6	GALLLATIN 6, Tennessee	36 17 21	86 23 11	158	Nov 14, 1978
398a	TVA	JOHN SEV14	JOHN SEVIER 4, Tennessee	36 26 02	85 58 40	347	Nov 28, 1978
399a	TVA	JOHNSONV11	JOHNSONVILLE 11, Tennessee	36 01 33	88 02 43	131	Nov 14, 1978
400a	TVA	KINGSTON 2	KINGSTON 2, Tennessee	35 59 17	84 32 40	317	Jan 9, 1979
401a	TVA	PARADISE24	PARADISE 24, Kentucky	37 11 20	86 58 38	139	Dec 28, 1978
402a	TVA	SHAWNEE 13	SHAWNEE 13, Kentucky	37 04 09	88 46 21	118	May 5, 1981
403a	TVA	SHAWNEE 20	SHAWNEE 20, Kentucky	37 08 40	88 49 17	107	Dec 26, 1978
404a	TVA	SHAWNEE 22	SHAWNEE 22, Kentucky	37 08 18	88 48 12	113	Jul 22, 1980
405a	TVA	WATTS BAR2	WATTS BAR 2, Tennessee	35 37 46	84 46 29	238	Jan 9, 1979
406a	TVA	WIDOWS C3	WIDOWS CREEK 3, Alabama	34 51 31	85 43 21	469	Nov 14, 1978

ADS SITE IDENT	NET WORK	NET SITE IDENT	SITE NAME	LATITUDE d m s	LONGITUDE d m s	ELEVATION (meters)	FIRST ACTIVE DATE
407a	TVA	WIDOWS C9	WIDOWS CREEK 9, Alabama	34 52 04	85 43 17	457	Apr 7, 1981
408a	TVA	WIDOWS C23	WIDOWS CREEK 23, Alabama	35 55 05	85 44 02	209	Nov 14, 1978
409a	TVA	HYTOP	HYTOP, Alabama	34 53 39	86 05 36	544	May 1, 1978
410a	TVA	LBL	LBL, Kentucky	36 47 27	88 04 01	177	Jun 30, 1977
411a	TVA	LOUDON	LOUDON, Tennessee	35 38 30	84 18 45	271	May 17, 1978
412a	TVA	LOVES MILL	LOVES MILL, Virginia	36 44 12	81 41 13	663	May 16, 1978
413a	EPA-IV	SCCAPEROMA	CAPE ROMAIN, South Carolina	32 55 59	79 39 27	5	Aug 3, 1983
414a	EPA-IV	SCCONGAREE	CONGAREE SWAMP, South Carolina	33 48 56	80 49 38	32	Oct 1, 1983
415a	APIOS-C	5141	Turkey Lake, Ontario	47 03 15	84 24 00	472	Sep 13, 1983
416a	APIOS-C	6121	Geraldton, Ontario	49 48 05	86 46 00	351	Aug 16, 1983
417a	APIOS-C	5151	Azure Lake, Ontario	47 28 12	81 52 30	244	Jul 24, 1983
418a	APIOS-C	4091	Cloyne, Ontario	44 49 09	77 11 45	259	Dec 4, 1984

APPENDIX C

WET DEPOSITION SITE HISTORY INVENTORY
ORDERED BY STATE AND PROVINCE

C-1

COLUMN HEADING DEFINITIONS FOR ADS SITE HISTORY REPORT

Column	Column Head	Explanation
1	STATE	The name of the State or Province in which the site is located appears as a group heading offset to the left. The ADS code for the State or Province is shown parenthetically.
2	NETWORK	The network which operates the site is identified as a group heading. The ADS network number is shown parenthetically.
3	SITE NAME	The network's name of the site is shown as a group heading followed by the network's site number.
4	ADS SITE IDENT	The first four characters of the six character site identification. The first three numbers identify a geographic location. The fourth character (the letter a, b, c, ...) identifies colocated samplers at a site.
5	LATITUDE d m s	The North latitude of the site in degrees, minutes and seconds.
6	LONGITUDE d m s	The West longitude of the site in degrees, minutes and seconds.
7	ELEV M	The elevation, in meters above sea level, of the site.
8	ADS rev num	The ADS protocol revision number. Each revision in protocol for a site causes a separate partial line on the right of the report.
9	REV START	This is the month and year of the start of this particular protocol revision.
10	REV END	This is the month and year of the end of the protocol revision (a blank value indicates protocol currently in effect).
11	OPERATING HISTORY	This is the narrative explanation of the protocol revision. If it is blank, no site-specific information is available.

Wet Deposition Site History Inventory
Ordered by State and Province

Alabama, NADP, Blackbelt

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Alabama (1)								
NADP (01)								
Blackbelt (011000)	329a	32 27 30	87 14 31	58	00	8/83		
UAPSP (08)								
Selma (15)	235a	32 28 25	87 05 03	42	00	10/81	1/82	Operated under normal UAPSP sampling protocol in last quarter of 1981. Co-located sampler at this site, see 235b.
					01	1/82	10/82	UAPSP sampling protocol expanded to include NITRITE in CY 82 See co-located sampler 235b.
					02	10/82	1/83	Strong acid analysis discontinued on Sept 30, 1982. See co-located sampler 235b.
					03	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol See co-located sampler 235b.
Selma-2 (15 smplr 2)	235b	32 28 25	87 05 03	42	00	10/81	1/82	Operated under normal UAPSP sampling protocol in last quarter of 1981 See co-located sampler 235a.
					01	1/82	10/82	UAPSP sampling protocol expanded to include NITRITE in CY 82 See co-located sampler 235a.
					02	10/82	1/83	Strong acid analysis discontinued on Sept 30, 1982. See co-located sampler 235a.
					03	1/83	1/83	Discontinued analysis of NITRITE on 1/1/83. Discontinued operation of co-located sampler on 1/21/83. This ADS ident TERMINATED.
EPA-IV (13)								
Dewey Armory (ALDEWEYARM)	259a	32 34 03	85 55 54	153	00	3/82	10/83	Samples analyzed by RTI
					01	10/83		Samples analyzed by Global Geochem after 10/1/83
TVA (16)								
COLBERT 1 (COLBERT 1)	385a	34 46 13	87 50 09	152	00	12/78		Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
COLBERT 8 (COLBERT 8)	386a	34 46 18	87 54 05	146	00	11/78	8/81	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
HYTOP (HYTOP)	409a	34 53 39	86 05 36	544	00	5/78	10/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
WIDOWS CREEK 23 (WIDOWS C23)	408a	35 55 05	85 44 02	209	00	11/78	12/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
WIDOWS CREEK 3 (WIDOWS C3)	406a	34 51 31	85 43 21	469	00	11/78	12/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
WIDOWS CREEK 9 (WIDOWS C9)	407a	34 52 04	85 43 17	457	00	4/81		Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).

Alaska (2)

Alaska, NADP, Mt. Mckinley Park

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d	m	s	LONGITUDE d	m	s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
NADP (01)												
Mt. Mckinley Park (020390)	001a	63	43	27	148	57	55	649	00	6/80		
Arizona (4)												
NADP (01)												
Grand Canyon (030370)	068a	36	04	18	112	09	11	2152	00	8/81		
Oliver Knoll (030360)	054a	33	04	17	109	51	53	1173	00	8/81		
Organ Pipe Mon. (030620)	003a	31	57	02	112	48	00	506	00	4/80	9/81	
									01	9/81		In Sept 81 site was moved approximately 70m East. No change made to NET ident or ADS ident.
Tombstone (030180)	002a	31	42	30	110	03	24	1398	00	3/79	9/81	Considered by NADP to be nonstandard 9 Sept 80 - 1 Sept 81 because of discontinuous operations. TERMINATED on 9/1/81.
Arkansas (5)												
NADP (01)												
Buffalo River (041620)	269a	36	05	00	92	33	00	265	00	7/82	12/83	
									01	12/83		On 27 Dec 83 site moved approximately 2 km NW because of loss of ground cover and increased vehicle activity at previous location. No change made to the NET ident or ADS ident.
Caddo Valley (040380)	330a	34	10	46	93	05	55	71	00	12/83		
Fayetteville (042700)	004a	36	06	02	94	10	24	391	00	5/80		
Warren 2WSW (040260)	268a	33	36	15	92	06	02	78	00	5/82		
California (6)												
NADP (01)												
Bishop (053460)	006a	37	22	15	118	21	59	1252	00	4/80	6/82	This site was part of the WMO network. Operations TERMINATED on 6/22/82.
Channel Islands (058500)	159a	34	00	57	119	21	43	49	00	7/80	2/82	Operations TERMINATED 2/19/82. Considered nonstandard by NADP because of irregular sampling intervals and discontinuous sampling.
Chuchupate (058501)	332a	34	48	22	119	00	38	1623	00	8/83		
Davis Site (058840)	009a	38	32	07	121	46	30	18	00	10/78		Discontinuous sampling May to September 1979, 1980, 1981. Historical records indicate minimal precipitation during periods of nonsampling.
Hopland (Ukiah) (054540)	007a	39	00	17	123	05	05	253	00	10/79		
Palomar Mountain (056820)	331a	33	18	36	116	51	13	1686	00	3/83		
Sequoia Nat. Park (057550)	008a	36	34	09	118	46	40	1856	00	7/80		
Tanbark Flat (054200)	270a	34	12	27	117	45	39	853	00	1/82		
Yosemite (058850)	157a	37	47	49	119	51	30	1408	00	12/81		
Colorado (8)												
NADP (01)												

Colorado, NADP, Alamosa

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d	m	s	LONGITUDE d	m	s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Alamosa (060060)	160a	37	26	36	105	51	55	2298	00	4/80	6/82	
									01	6/82	8/82	Operations TERMINATED by sponsor on 15 June 1982.
									02	8/82	10/83	Operations resumed on 24 Aug 1982.
									03	10/83		On 18 Oct 1983 site moved 192m South away from the influence of open airport beacon tower. No change made in NET ident or ADS ident.
Buffalo Pass (061920)	335a	40	32	20	106	40	35	3215	00	2/84		
Las Animas (060180)	333a	38	07	04	103	18	57	1212	00	10/83		
Loch Vale (061911)	342a	40	17	16	105	39	17	3159	00	8/83		
Manitou (062120)	011a	39	06	04	105	05	31	2362	00	10/78		
Mesa Verde (061530)	029a	37	11	56	108	29	26	2172	00	4/81		
Niwot Saddle (060220)	334a	40	03	19	105	35	18	3520	00	6/84		
Pawnee (062220)	012a	40	48	23	104	45	15	1641	00	5/79	4/80	
									01	4/80		On 22 April 80 the collector was moved closer to the rain gage. No change made to the NET ident or ADS ident.
Rocky Mt. Nat Park (061910)	010a	40	21	52	105	33	37	2369	00	5/80	10/83	
									01	10/83		On 18 Oct 83 site was moved from HQ parking lot to a meadow about 1.8 km W and 120 m higher than previous location. No change made to NET ident or ADS ident.
Sand Spring (061560)	173a	40	30	27	107	42	07	1998	00	3/79		
UAPSP (08)												
Yampa (23)	236a	40	10	00	106	55	00	2390	00	8/82	10/82	Started operation in UAPSP in middle of first year.
									01	10/82		Strong acid analysis discontinued on Sept 30, 1982.
Delaware (10)												
MAP3s/PCN (06)												
Lewes (7)	013a	38	46	00	75	00	00	0	00	2/78	11/80	This MAP3S site started operation with the Battelle Northwest collector; surface area = 490 sq cm.
									01	11/80		On 10-Nov-80 the collector was changed to the Aerochem Metrics model 301-A2 with a surface area of 640 sq cm.
UAPSP (08)												
Indian River (03)	152a	38	34	50	75	14	45	6	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
									01	1/79	6/80	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 152b. Starting 1/1/80 only one sampler in operation at this EPRI/SURE site. STATION TERMINATED June 30, 1980.
Indian River-2 (03 smplr 2)	152b	38	34	50	75	14	45	6	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
									01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 152a. The second sampler was removed after one year, this ADS number DISCONTINUED.

Wet Deposition Site History Inventory
Ordered by State and Province

Florida, NADP, Austin-Cary Forest

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Florida (12)								
NADP (01)								
Austin-Cary Forest (100020)	014a	29 45 37	82 11 56	46	00	10/78	7/81	Operations TERMINATED on 7/14/81.
Bradford Forest (100360)	015a	29 58 29	82 11 53	46	00	10/78		
CIFANT (100380)	336a	28 32 34	80 38 40	.	00	8/83		
Everglades Nat. Pa (101190)	016a	25 23 40	80 41 45	2	00	6/80		
Quincy (101400)	337a	30 32 56	84 35 50	69	00	3/84		
Verna Well Field (104100)	338a	27 22 48	82 17 02	25	00	8/83		
Georgia (13)								
NADP (01)								
Bellville (112040)	339a	32 08 30	81 58 18	61	00	4/83		
Georgia Station (114140)	017a	33 10 40	84 24 22	270	00	10/78		
Tifton, ARS (115000)	340a	31 28 25	83 31 59	104	00	10/83		
UAPSP (08)								
Uvalda (14)	237a	32 03 18	82 28 25	64	00	10/81	10/82	Operated under normal UAPSP sampling protocol beginning in last quarter of 1981.
					01	10/82		Strong acid analysis discontinued on Sept 30, 1982. Co-located sampler 237b started operation on 10/9/83.
Uvalda-2 (14 smplr 2)	237b	32 03 18	82 28 25	64	00	10/83		Start of operation as co-located sampler to site 237a on 10/9/83.
EPA-IV (13)								
Hiawassee (GAHIAWASSE)	261a	34 50 33	83 43 03	636	00	5/82	10/83	Samples analyzed by RTI
					01	10/83		Samples analyzed by Global Geochem after 10/1/83
Summerville (GASUMMERVI)	262a	34 28 22	85 24 27	202	00	5/82	10/83	Samples analyzed by RTI
					01	10/83		Samples analyzed by Global Geochem after 10/1/83
Hawaii (15)								
NADP (01)								
Mauna Loa (120080)	018a	19 32 22	155 34 45	3426	00	6/80		
Idaho (16)								
NADP (01)								
Craters of Moon (130340)	019a	43 27 48	113 33 31	1806	00	8/80		Considered nonstandard by NADP through December 1980, because of irregular sampling intervals.
Headquarters (130480)	271a	46 37 40	115 49 10	969	00	7/82		
Reynolds Creek (131180)	341a	43 12 18	116 44 57	1198	00	11/83		
Illinois (17)								
NADP (01)								
Argonne (141980)	021a	41 42 04	87 59 43	229	00	3/80	5/80	
					01	5/80		On 25 May 80 site moved 400m W. No change made to NET ident or ADS ident.

Illinois, NADP, Bondville

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Bondville (141160)	020a	40 03 12	88 22 19	212	00	2/79		See co-located sites 020b and 020c. NADP/NTN comparison site with NET ident 141161, ADS ident 020c. Comparison involves comparability of Geotech and Aerochem Metrics Wet/Dry collectors.
Bondville intercom (141161)	020c	40 03 12	88 22 19	212	00	9/83		See co-located sites 020a and 020b. NADP/NTN comparison site with NET ident 141160, ADS ident 020a. Comparison involves comparability of Geotech and Aerochem Metrics Wet/Dry collectors.
Dixon Springs (146340)	023a	37 26 08	88 40 19	161	00	1/79		
NIARC (141800)	024a	41 50 29	88 51 04	265	00	5/81		
Salem (144740)	161a	38 38 36	88 58 01	173	00	4/80	4/81	
					01	4/81	11/81	From 14 Apr 1981 to 3 Nov 1981 all chemistry analysis values were excluded (NS) due to a faulty collector lid seal.
					02	11/81		On 30 Oct 81 a Belfort weighing recording raingage was installed 10 ft NW of and to replace an 8-inch stick or standard gage. No change made to NET ident or ADS ident.
Southern Ill U (143580)	022a	37 42 36	89 16 08	146	00	7/79		
MAP3s/PCN (06)								
Illinois (5)	020b	40 03 12	88 22 19	212	00	11/77	2/80	This MAP3S site started operation with the Battelle Northwest collector; surface area = 490 sq cm.
					01	2/80	1/82	On 16-Feb-80 the collector was changed to the HASL model with surface area = 325 sq cm.
					02	1/82		On 5-Jan-82 the collector was changed to the Aerochem Metrics model 301-A2 with surface area = 640 sq cm.
GLAD (14)								
Evanston (142360010)	288a	42 03 36	87 40 25	183	00	7/81		
Jardine Plant (141220043)	289a	41 53 41	87 36 23	194	00	6/81		
South Water Plant (141220034)	290a	41 45 25	87 32 45	187	00	6/81		
Indiana (18)								
NADP (01)								
Huntington (152020)	343a	40 50 24	85 27 50	244	00	8/83		
Indiana Dunes (153420)	025a	41 37 57	87 05 16	208	00	7/80	3/81	On 17 March 1981 site moved 62m South off of a roof to ground level. NET ident was changed to 153421, no change to ADS ident.
					01	3/81		Sampler was located on a nearby roof prior to 3/17/81. Sampling did not start in current location until 3/19/81.
Purdue U Ag Farm (154100)	272a	40 28 17	85 59 18	215	00	7/82		
UAPSP (08)								

Indiana, UAPSP, Fort Wayne

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Fort Wayne (07)	156a	41 02 39	85 19 08	244	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	10/81	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 156b. Starting 1/1/80 only one sampler in operation at this EPRI/SURE site.
					02	10/81	1/82	Transfered operation from EPRI/SURE to UAPSPS and operated under normal UAPSPS protocol in last quarter of 1981.
					03	1/82	10/82	UAPSPS one year effort to analyze NITRITE in 1982, otherwise protocol remained the same.
					04	10/82	1/83	Strong acid analysis discontinued on Sept 30, 1982.
					05	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol
Fort Wayne-2 (07 smplr 2)	156b	41 02 39	85 19 08	244	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 156a. The second sampler was removed after one year, this ADS number DISCONTINUED.
Rockport (05)	154a	37 52 50	87 07 47	131	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	10/81	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 154b. Starting 1/1/80 only one sampler in operation at this EPRI/SURE site.
					02	10/81	10/82	Transfered operation from EPRI/SURE to UAPSPS and operated under normal UAPSPS protocol beginning the last quarter of 1981.
					03	10/82		Strong acid analysis discontinued on Sept 30, 1982.
Rockport-2 (05 smplr 2)	154b	37 52 50	87 07 47	131	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 154a. The second sampler was removed after one year, this ADS number DISCONTINUED.
Kansas (20)								
NADP (01)								
Farlington (170740)	344a	37 39 04	94 48 24	282	00	3/84		
Konza Prairie (173120)	273a	39 06 08	96 36 33	344	00	8/82		
Scott Lake (173280)	345a	38 40 16	100 54 59	863	00	3/84		
UAPSP (08)								
Lancaster (18)	238a	39 34 10	95 18 17	346	00	11/81	10/82	Operated under normal UAPSP sampling protocol beginning in last quarter of 1981.
					01	10/82		Strong acid analysis discontinued on Sept 30, 1982. Co-located sampler 238b started operation on 10/12/83.
Lancaster-2 (18 smplr 2)	238b	39 34 10	95 18 17	346	00	10/83		Start of operation as co-located sampler to site 238a on 10/12/83.

Kentucky, NADP, Clark State Fish H

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Kentucky (21)								
NADP (01)								
Clark State Fish H (183560)	348a	38 07 06	83 32 49	204	00	8/83		
Lilley Cornett Woo (182260)	347a	37 04 40	82 59 37	335	00	9/83		
Perryville (180360)	346a	37 40 39	84 57 25	277	00	11/83		
UAPSP (08)								
Morehead (11)	239a	38 08 10	83 27 17	235	00	10/81	10/82	Operated under normal UAPSP sampling protocol beginning in last quarter of 1981.
					01	10/82		Strong acid analysis discontinued on Sept 30, 1982.
EPA-IV (13)								
Grayson (KYGRAYSONL)	260a	38 14 00	82 59 00	213	00	4/82	10/83	Samples analyzed by RTI
					01	10/83		Samples analyzed by Global Geochem after 10/1/83
Mammoth Cave (KYMAMMOTHC)	265a	37 13 00	86 04 00	219	00	10/82	10/83	Samples analyzed by RTI
					01	10/83		Samples analyzed by Global Geochem after 10/1/83
TVA (16)								
CUMBERLAND 20 (CUMBERLA20)	394a	36 50 17	87 10 12	0	00	7/77	12/79	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
LBL (LBL)	410a	36 47 27	88 04 01	177	00	6/77		Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
PARADISE 24 (PARADISE24)	401a	37 11 20	86 58 38	139	00	12/78	3/81	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
SHAWNEE 13 (SHAWNEE 13)	402a	37 04 09	88 46 21	118	00	5/81		Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
SHAWNEE 20 (SHAWNEE 20)	403a	37 08 40	88 49 17	107	00	12/78	12/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
SHAWNEE 22 (SHAWNEE 22)	404a	37 08 18	88 48 12	113	00	7/80	8/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
Louisiana (22)								
NADP (01)								
Iberia (191260)	275a	29 55 47	91 42 54	6	00	11/82		
N La Hill Farm (190620)	274a	32 45 04	93 03 02	61	00	11/82		
Southeast (193060)	349a	30 48 41	90 10 51	78	00	1/83		
Maine (23)								
NADP (01)								
Acadia < 11/81 (200010)	162a	44 24 30	68 14 42	37	00	11/80	11/81	On 3 Nov 1981, site moved 4 km SSW and 85 meters higher. The NET ident was changed to 200011 and the ADS ident was changed to 257a00.
Acadia > 11/81 (200011)	257a	44 22 27	68 15 39	122	00	11/81		This site was identified as NET ident 200010 and ADS ident 162a00 prior to 3 Nov 1981.

Wet Deposition Site History Inventory
Ordered by State and Province

Maine, NADP, Bridgton

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Bridgton (200277)	164a	44 06 27	70 43 44	222	00	9/80		
Caribou (a) (200045)	163a	46 52 08	68 00 55	191	00	4/80		NADP comparison site with CANSAP network April 1981 - April 1984. See ADS ident 163b. Comparison involves comparability of U. S. and Canadian data.
Greenville Station (200935)	030a	45 29 23	69 39 52	322	00	11/79	7/80	
					01	7/80		On 15 July 80 a Belfort weighting and recording rain gage was installed. Prior to this date there was no gage on the site.
CANSAP (05)								
Caribou (b) (13 000)	163b	46 52 08	68 00 55	191	00	4/80		See co-located NADP site 163a.
UAPSP (08)								
Winterport (13)	240a	44 37 05	68 58 30	67	00	10/81	10/82	Operated under normal UAPSP sampling protocol beginning in last quarter of 1981.
					01	10/82		Strong acid analysis discontinued on Sept 30, 1982.
Maryland (24)								
NADP (01)								
Wye (211320)	350a	38 54 47	76 09 09	6	00	3/83		
Massachusetts (25)								
NADP (01)								
Cadwell (220815)	276a	42 21 40	72 23 27	283	00	3/82		
East (221325)	277a	42 23 02	71 12 53	20	00	2/82		
MACL (220155)	251a	41 58 23	70 01 12	34	00	12/81	9/82	Collector located on rooftop.
					01	9/82		On 23 Sept 1982 site moved off rooftop to ground level. No change made to NET ident or ADS ident.
UAPSP (08)								
Montague (01)	149a	42 32 00	72 32 08	73	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	7/80	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 149b. Starting 1/1/80 only one sampler in operation at this EPRI/SURE site. Sampler moved to ADS location 150a on 1-Aug-80. Site 149a TERMINATED.
Montague-2 (01 smplr 2)	149b	42 32 00	72 32 08	73	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 149a. The second sampler was removed after one year, this ADS number DISCONTINUED.
Turners Falls (01)	150a	42 35 50	72 32 55	98	00	8/80	10/81	EPRI/SURE site moved from 149a on 1-Aug-80
					01	10/81	10/82	Transfered operation from EPRI/SURE to UAPSPS and operated under normal UAPSPS protocol in last quarter of 1981.
					02	10/82		Strong acid analysis discontinued on Sept 30, 1982.
Michigan (26)								

Michigan, NADP, Chassell

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d	m	s	LONGITUDE d	m	s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
NADP (01)												
Chassell (232241)	258a	47	06	03	88	33	10	279	00	2/83		This site was identified as NET ident 232240 and ADS ident 165a00 prior to 15 Feb 1983.
Douglas Lake (230920)	031a	45	33	40	84	40	42	233	00	7/79		NADP comparison site with CANSAP network April 1981 - April 1984. See ADS ident031b. Comparison involves the comparability of US and Canadian data.
Houghton (232240)	165a	47	13	33	88	37	50	193	00	10/80	2/83	On 15 Feb 1983, site moved 13 km SE. The NET ident was changed to 232241, the ADS ident to 258a00 and the SITE names to Chassell. This site was considered nonstandard by NADP because of discontinuous sampling. Collector was moved each year to 026a from May to November.
Isle Royal Park (232570)	026a	47	54	43	89	09	10	209	00	8/80		This site is closed by federal law from November through April every year. Therefore the site is considered nonstandard by NADP. Collector was moved annually to site 165a from November to May in 1980, 1981, and 1982.
Kellogg (232660)	032a	42	24	37	85	23	34	288	00	6/79		
Raco (230980)	351a	46	22	26	84	44	31	260	00	5/84		
Wellston (235340)	033a	44	13	28	85	49	07	292	00	10/78	9/83	
									01	9/83		On 27 Sept 83 the collector was moved to about 10m from the rain gage. No change made to the NET ident or ADS ident.
CANSAP (05)												
Pellston (13 020)	031b	45	33	40	84	40	42	233	00	7/79	1/80	This site is part of an International study using co-located samplers, see 031a. Collector: Sangamo model C.
									01	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. See co-located NADP site 031a.
UAPSP (08)												
Gaylord (10)	241a	44	56	58	84	38	30	473	00	11/81	10/82	Operated under normal UAPSP sampling protocol beginning in last quarter of 1981.
									01	10/82		Strong acid analysis discontinued on Sept 30, 1982.
GLAD (14)												
Bay City (230420002)	291a	43	39	30	83	53	45	187	00	3/81		
Beaver Island (230860001)	292a	45	44	30	85	30	30	183	00	9/81		
Benton Harbor (230460004)	293a	42	07	00	86	28	30	191	00	2/81		
Cooper Harbor (232740001)	294a	47	28	00	87	52	00	191	00	6/81	5/83	This GLAD network site TERMINATED on May 17, 1983. Sampler moved to Eagle Harbor (ADS site 295a).
Eagle Harbor (232740002)	295a	47	27	28	88	09	42	188	00	6/83		
Empire (232940001)	296a	44	51	16	86	02	08	233	00	6/81		
Escanaba (231420008)	297a	45	44	30	87	03	30	196	00	6/81		
Grand Marais (230080001)	298a	46	40	00	85	58	00	191	00	7/81		
Mount Clemens (233660002)	299a	42	34	00	82	50	40	176	00	4/82		
Muskegon (233760007)	301a	43	08	40	86	16	20	190	00	3/81		
Ontonagon (234060002)	302a	46	49	20	89	38	00	194	00	7/81		

Michigan, GLAD, Port Austin

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Port Austin (232340002)	303a	44 02 50	82 59 40	185	00	4/81		
Port Sanilac (234800001)	304a	43 26 20	82 32 32	190	00	3/81		
Tawas Point (234110002)	305a	44 16 00	83 26 30	179	00	5/81		
Minnesota (27)								
NADP (01)								
Camp Ripley (242360)	352a	46 14 58	94 29 50	410	00	10/83		
Fernberg (241840)	166a	47 56 45	91 29 43	524	00	11/80	3/81	This NADP site operated with collector at ground level within a clearing until March 1981.
					01	3/81	5/81	Collector and raingage(?) moved to a trailer rooftop within existing clearing.
					02	5/81		Collector and raingage returned to ground level about 30m from trailer roof top. Co-located with ADS-IDENT 166b.
Lamberton (242720)	035a	44 14 14	95 18 02	343	00	1/79		
Marcell (241660)	034a	47 31 52	93 28 07	431	00	7/78		
APIOS-D (97)								
Fernberg (6051)	166b	47 56 51	91 29 26	506	00	10/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge. Co-located with ADS-IDENT 166a.
					01	5/82		Warm weather collector and gauge
GLAD (14)								
Duluth (241040029)	306a	46 46 07	92 05 15	198	00	7/81		
Gooseberry Falls (241840016)	307a	46 24 40	91 28 48	206	00	9/81		
Gull Lake (240900001)	308a	46 24 40	94 21 15	383	00	1/82		
Hovland (240800009)	309a	47 50 50	89 57 45	224	00	7/81		
Mississippi (28)								
NADP (01)								
Clinton (251080)	242b	32 18 22	90 18 54	90	00	7/84		See co-located UAPSP site 242a.
Meridian (251460)	036a	32 20 04	88 44 42	89	00	4/80		
UAPSP (08)								
Clinton (16)	242a	32 21 06	90 17 15	76	00	10/81	10/82	Operated under normal UAPSP sampling protocol beginning in last quarter of 1981. See co-located NTN site 242b.
					01	10/82		Strong acid analysis discontinued on Sept 30, 1982. See co-located NTN site 242b which began operations on July 11, 1984.
EPA-IV (13)								
University (MSUNIVERSI)	263a	34 23 00	89 32 00	35	00	5/82	10/83	Samples analyzed by RTI
					01	10/83		Samples analyzed by Global Geochem after 10/1/83
Missouri (29)								
NADP (01)								
Ashland (260380)	252a	38 45 13	92 11 55	239	00	10/81		
University Forest (260560)	253a	36 54 39	90 19 06	154	00	10/81		
Montana (30)								
NADP (01)								
Clancy (270760)	355a	46 29 07	112 04 04	1489	00	1/84		

Montana, NADP, Give Out Morgan

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d	m	s	LONGITUDE d	m	s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Give Out Morgan (271340)	278a	48	28	42	105	11	39	817	00	9/82		
Glacier Nat Park (270570)	037a	48	30	37	113	59	44	968	00	6/80		NADP comparison site with CANSAP network, April 1981 - April 1984. See ADS ident 037b. Comparison involves comparability of US and Canadian data.
St. Mary Ranger St (270560)	354a	48	44	28	113	25	48	1391	00	1/83		
CANSAP (05)												
Glacier Nat Park (13 010)	037b	48	30	37	113	59	44	968	00	6/80		See co-located NADP site 037a.
Nebraska (31)												
NADP (01)												
Mead (281520)	038a	41	09	11	96	29	34	352	00	7/78	9/83	
									01	9/83		On 1 Sept 83 collector moved 10m W to maintain required 5m rain gage - collector separation. No change made to NET ident or ADS ident.
New Hampshire (33)												
NADP (01)												
Hubbard Brook (300240)	039a	43	56	35	71	42	12	250	00	7/78		
New Jersey (34)												
NADP (01)												
Princeton (312980)	167a	40	20	44	74	37	01	37	00	8/80	7/81	On 7 July 1981, site moved 40 km SW. The NET ident was changed to 312981, the ADS ident to 285a00 and the SITE names to Washington Crossing. This site was part of the WMO network. Data collected at Princeton was considered nonstandard by NADP because it did not follow siting guidelines.
Washington Xing (312981)	285a	40	18	54	74	51	17	72	00	8/81		This NADP site was formerly located in the town of Princeton. This site was identified as NET ident 312980 and ADS ident 167a00 prior to 7 July 1981.
New Mexico (35)												
NADP (01)												
Bandelier (320720)	279a	35	46	54	106	16	03	1998	00	6/82		
CUBA (320980)	280a	36	02	27	106	58	17	2124	00	2/82		
Mayhill (320840)	356a	32	54	00	105	28	00	2012	00	1/84		
New York (36)												
NADP (01)												
Aurora (330860)	040a	42	44	02	76	39	35	249	00	4/79		
Bennett Bridge (335240)	046a	43	31	34	75	56	50	245	00	6/80		
Biscuit Brook (336840)	359a	41	59	39	74	30	13	634	00	10/83		
Chautauqua (331000)	041a	42	17	58	79	22	47	488	00	6/80		
Huntington (332020)	168a	43	58	19	74	13	25	500	00	10/78	6/84	
									01	6/84		On 15 June 84 site moved to new forest clearing. No change to NET ident or ADS ident.
Jasper (336500)	047a	42	06	22	77	32	08	634	00	2/80		

New York, NADP, Knobit

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Knobit (331220)	042a	42 22 41	73 30 10	406	00	1/80		
Stillwell Lake (335140)	045a	41 21 00	74 02 22	186	00	6/79	10/84	Comparision site with NET ident 335141, ADS ident 358a from 6 Sept 1983 to 2 Oct 1984. Comparison involved impact on data of site relocation. On 2 Oct 1984 operations TERMINATED by sponsor and site replaced by NET ident 335141, ADS ident 358a.
West Point (335141)	358a	41 21 03	74 02 54	203	00	9/83		Comparison site with NET ident 335140, ADS ident 045a from 6 Sept 1983 to 2 Oct 1984. Comparison involved impact on data of site relocation. Note: dry side started 6 Sept 83, wet side started 13 Sept 83. This site was identified as NET ident 335140 and ADS ident 045a prior to 13 Sept 83.
Whiteface (332021)	043b	44 23 26	73 51 34	610	00	7/84		See co-located MAP3S site 043a.
MAP3a/PCN (06)								
Brookhaven (6)	048a	40 52 00	72 53 00	25	00	2/78	2/81	Started operation using Battelle Northwest sampler with surface area = 490 sq cm.
					01	2/81		On 24-Feb-81 the sampler was changed to an Aerochem Metrics model 301-A2 with surface area = 640 sq cm.
Ithaca (2)	044a	42 24 03	76 39 12	509	00	10/76	8/77	This MAP3S site started operation with the Battelle Northwest collector; surface area = 490 sq cm.
					01	8/77	9/77	Analysis method changed. NH4 was colorimetry now Ion Chromatography. NA and K were Flame Emission Spectrography - now Ion Chromatography.
					02	9/77	11/79	Analysis method changed. CA and MG were Flame Emission Spectrography - now Flame Atomic Absorption. SO4 was colorimetry - now Colorimetry with field fixation.
					03	11/79		Collector changed to HASL model with surface area = 640 sq cm.
Whiteface (1)	043a	44 23 26	73 51 34	610	00	10/76	8/77	This MAP3a/PCN site started operation with the Battelle Northwest collector; surface area = 490 sq cm.
					01	8/77	9/77	Analysis method changed in August 1977. NH4 changed from colorimetry to Ion Chromatography. NA and K changed from Flame Emission Spectrometry to Ion Chromatography.
					02	9/77	12/79	Analysis method changed in mid September 1977. CA and MG changed from Flame Emission Spectrometry to Flame Atomic Absorbtion on 9/14/77. SO4 (S-IV) changed from colorimetry to colimetry with field fixation on 9/6/77.
					03	12/79		Collection instrument changed to HASL with surface area = 640 sq cm in December 1979. See co-located NTN site 043b which started operations July 3, 1984.

NAPSP (08)

Wet Deposition Site History Inventory
Ordered by State and Province

New York, UAPSP, Big Moose

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Big Moose (21)	243a	43 49 03	74 54 08	603	00	10/81	1/82	Operated under normal UAPSP sampling protocol in last quarter of 1981
					01	1/82	10/82	UAPSP sampling protocol expanded to include NITRITE in CY 82
					02	10/82	1/83	Strong acid analysis discontinued on Sept 30, 1982.
					03	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol
GLAD (14)								
Cape Vincent (333340099)	310a	44 05 30	76 20 30	80	00	1/82		
Dunkirk (331600099)	311a	42 30 13	79 19 26	182	00	1/82	9/84	
Fair Haven (330860099)	312a	43 19 08	76 42 11	74	00	1/82	11/84	
Grand Island (332000099)	313a	43 03 30	78 58 00	173	00	1/82		
Olcott (334720099)	314a	43 20 27	78 41 35	84	00	1/82		
Rochester (335760099)	315a	43 13 48	77 34 45	81	00	1/82		
SILVER CREEK (3362400099)	381a	42 34 49	79 08 02	199	00	10/84		Initial period of operation of this site in the GLAD network
SODUS POINT (337240099)	380a	43 16 24	76 58 32	78	00	11/84		Initial period of operation of this site in the GLAD network
North Carolina (37)								
NADP (01)								
Clinton Station (343560)	052a	35 01 26	78 16 45	47	00	10/78		
Coweeta (342500)	050a	35 03 38	83 25 50	686	00	7/78		
Finley (A) (344160)	053a	35 43 43	78 40 52	119	00	10/78	4/81	NADP intercomparison study, see co-located NET ident 344161, ADS ident 053b.
					01	4/81	7/81	On 21 April 1981 site moved approximately 100m. No change to NET ident or ADS ident.
					02	7/81	5/83	On 17 July 1981 site moved 125m. No change to NET ident or ADS ident.
					03	5/83		On 6 May 1983 site moved 10m N. No change to NET ident or ADS ident.
Finley (B) (344161)	053b	35 43 43	78 40 52	119	00	10/78	4/80	NADP comparison site. See ADS ident 053a, NET ident 344160. Comparison involves single site collection variability. Collection operations TERMINATED on 4/1/80.
Jordan Creek (343600)	360a	34 58 16	79 31 41	132	00	10/83		
Lewiston (340320)	049a	36 07 40	77 10 30	26	00	10/78		
Piedmont Station (343460)	051a	35 41 48	80 37 22	221	00	10/78		
R Triangle Inst (341180)	174a	35 54 09	78 52 12	99	00	10/80	1/83	Operations TERMINATED on 4 Jan 83.
R Triangle Park (343310)	169a	35 53 47	78 51 38	94	00	4/80	3/83	Operations TERMINATED on 1 Mar 83.
UAPSP (08)								

North Carolina, UAPSP, Raleigh

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Raleigh (08)	053c	35 43 43	78 40 48	128	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	10/81	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 053d. Starting 1/1/80 only one sampler in operation at this EPRI/SURE site.
					02	10/81	1/82	Transfered operation from EPRI/SURE to UAPSPS and operated under normal UAPSPS protocol in last quarter of 1981.
					03	1/82	10/82	UAPSPS one year effort to analyze NITRITE in 1982, otherwise protocol remained the same.
					04	10/82	1/83	Strong acid analysis discontinued on Sept 30, 1982.
					05	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol
Raleigh-2 (08 smplr 2)	053d	35 43 43	78 40 48	128	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	1/80	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 053c. The second sampler was removed after one year, this ADS number DISCONTINUED.
North Dakota (38)								
NADP (01)								
Icelandic (350880)	361a	48 46 57	97 45 15	308	00	10/83		
Teddy Roosevelt NP (350700)	062a	47 36 09	103 15 54	618	00	5/81	8/83	
					01	8/83		On 27 Aug 83 site moved due to road construction. No change to NET ident or ADS ident.
Woodworth (351180)	362a	47 07 22	99 14 02	0	00	11/83		
Ohio (39)								
NADP (01)								
Caldwell (364900)	056a	39 47 34	81 31 52	276	00	9/78		
Delaware (361760)	055a	40 21 19	83 03 58	285	00	10/78		
Wooster (367160)	058a	40 46 48	81 55 31	315	00	9/78		
NAP3a/PCN (06)								
Oxford (8)	057a	39 31 51	84 43 25	284	00	9/78	11/80	Started operation using Battelle Northwest sampler with surface area = 490 sq cm.
					01	11/80		On 24-Nov-80 the sampler was changed to the Aerochem Metrics model 301-A2 with surface area = 640 sq cm.
UAPSP (08)								
McArthur (22)	244a	39 14 06	82 28 41	224	00	10/81	10/82	Operated under normal UAPSP sampling protocol beginning in last quarter of 1981.
					01	10/82	5/84	Strong acid analysis discontinued on Sept 30, 1982. Site TERMINATED on 5/15/84.

Ohio, UAPSP, Zanesville

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d	m	s	LONGITUDE d	m	s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Zanesville (04)	153a	39	59	02	82	01	05	250	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
									01	1/79	10/81	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 153b. Starting 1/1/80 only one sampler in operation at this EPRI/SURE site.
									02	10/81	10/82	Transfered operation from EPRI/SURE to UAPSPS and operated under normal UAPSPS protocol beginning in last quarter of 1981.
									03	10/82		Strong acid analysis discontinued on Sept 30, 1982.
Zanesville-2 (04 smplr 2)	153b	39	59	02	82	01	05	250	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
									01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 153a. The second sampler was removed after one year, this ADS number DISCONTINUED.
GLAD (14)												
Ashtabula (360200001)	316a	41	54	30	80	46	30	179	00	1/82	9/84	
CONNEAUT (361480001)	382a	41	57	36	80	34	23	201	00	10/84		Initial period of operation of this site in the Glad network
Fairport Harbor (362100001)	317a	41	45	17	81	16	25	203	00	1/81		
Lorain (363620014)	318a	41	28	20	82	08	30	192	00	2/81		
Put-in-Bay (365260001)	319a	41	39	29	82	49	40	177	00	2/81		
Toledo (365200007)	320a	41	41	30	83	24	32	177	00	1/81		
Oklahoma (40)												
NADP (01)												
Clayton Lake (372580)	365a	34	31	42	95	21	10	348	00	2/83		
Great Plains Apiar (371740)	364a	34	58	48	97	31	16	330	00	3/83		
Salt Plains Nation (370060)	363a	36	48	08	98	12	37	346	00	12/83		
Oregon (41)												
NADP (01)												
Alsea (380200)	059a	44	23	13	123	37	22	84	00	12/79		
Bull Run (380260)	281a	45	27	00	122	08	50	267	00	7/82		
H.J. Andrews (381020)	061a	44	13	23	122	14	32	472	00	5/80		
Hyslop (380202)	366a	44	38	04	123	11	24	69	00	4/83		Site identified as NET ident 380201 and ADS ident 060a00 prior to 26 April 1983.
Lost Creek Dam (380840)	170a	42	40	04	122	40	59	475	00	10/80	12/83	Operations TERMINATED on 12/6/83.
Pendleton (381780)	175a	45	41	23	118	50	16	542	00	4/80	9/81	
									01	9/81	6/82	On 30 Sept 81 site moved 50m NE off of a roof to ground level. No change made to NET ident or ADS ident. Operations TERMINATED on 6/15/82.
Schmidt Farm (380201)	060a	44	37	35	123	12	50	69	00	12/79	4/83	Site moved on 26 April 1983. The NET ident changed to 380202, the ADS ident to 366a00 and the SITE names to Hyslop.
Silver Lake Ranger (380980)	367a	43	07	22	121	03	28	1334	00	8/83		
Starkey Experiment (381800)	368a	45	13	32	118	30	42	1250	00	3/84		
Vinse Hill (381120)	027a	43	53	57	117	25	37	904	00	7/80		Most chemistry analysis values excluded (NS) 9/81 to 1/83

Pennsylvania, NADP, Kane

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Pennsylvania (42)								
NADP (01)								
Kane (392940)	063a	41 35 52	78 46 04	618	00	7/78		
Leading Ridge (394200)	064a	40 39 32	77 56 10	282	00	4/79		
Milford (397220)	371a	41 19 39	74 49 13	212	00	12/83		
Penn State (391520)	065b	40 47 18	77 56 47	393	00	6/83		See co-located MAP3S site 065a. NADP/NTN comparison site. See ADS ident 065c00. Comparison involves comparability of Leonard Mold and Die and Aerochem Metrics Wet/Dry collectors.
Penn State (391521)	065c	40 47 18	77 56 47	393	00	10/83		See co-located MAP3S site 065a. NADP/NTN comparison site. See ADS ident 065b00. Comparison involves comparability of Leonard Mold and Die and Aerochem Metrics Wet/Dry collectors.
MAP3a/PCN (06)								
Penn State (3)	065a	40 47 18	77 56 47	393	00	9/76	8/77	Started operation using Battelle Northwest sampler with surface area = 490 sq cm.
					01	8/77	9/77	Analysis method changed. NH4 was colorimetry - now Ion Chromatography. NA and K were Flame Emission Spectrography - now Ion Chromatography.
					02	9/77	12/79	Analysis method changed. CA and MG were Flame Emission Spectrography - now Flame Atomic Absorption. SO4 was colorimetry - now Colorimetry with field fixation.
					03	12/79	3/81	Collection instrument changed. Was BNW - now HASL with surface area = 640 sq cm.
					04	3/81		Collection instrument changed. Was HASL - now Aerochem Metrics model 301-A2 with surface area = 640 sq cm. See co-located NTN site 065b which started June 7, 1983 and 065c which started October 4, 1983.
UAPSP (08)								
Scranton (02)	151a	41 34 30	75 59 40	335	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	1/81	Started operation as a co-located site. See 151b. On 1/1/80 continued operation in EPRI/SURE network with only one sampler in use.
					02	1/81	10/81	Station NOT IN USE.
					03	10/81	10/82	Started operation as UAPSP site.
					04	10/82		Strong acid analysis discontinued on Sept 30, 1982.
Scranton-2 (02 smplr 2)	151b	41 34 30	75 59 40	335	00	8/78	1/79	EPRI/SURE start up phase DO NOT USE DATA
					01	1/79	12/79	One year operation with two samplers at this site, see 151a.
GLAD (14)								
Erie (393060099)	321a	42 07 48	80 06 03	183	00	1/82		
South Carolina (45)								

South Carolina, NADP, Clemson

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d	m	s	LONGITUDE d	m	s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
NADP (01)												
Clemson (421880)	066a	34	40	28	82	50	09	221	00	3/79		Site is considered nonstandard by NADP because location of collector does not follow siting guidelines.
FPA-IV (13)												
CAPE ROMAIN (SCCAPEROMA)	413a	32	55	59	79	39	27	5	00	8/83	10/83	Samples analyzed by RTI
									01	10/83		Samples analyzed by Global Geochem after 10/1/83
CONGAREE SWAMP (SCCONGAREE)	414a	33	48	56	80	49	38	32	00	10/83		Samples analyzed by Global Geochem
Delta (SCDELTA000)	267a	34	32	22	81	33	40	113	00	12/82	10/83	Samples analyzed by RTI
									01	10/83		Samples analyzed by Global Geochem after 10/1/83
Long Creek (SCLONGCREE)	266a	34	48	19	83	14	17	602	00	11/82	10/83	Samples analyzed by RTI
									01	10/83		Samples analyzed by Global Geochem after 10/1/83
South Dakota (46)												
NADP (01)												
Cottonwood (430880)	373a	43	56	57	101	51	30	733	00	10/83		Site identified as NET ident 430060 and ADS ident 067a00 prior to 20 Sept 83.
Huron (430060)	067a	44	23	02	98	13	14	390	00	4/80	9/83	Site moved to Cottonwood, SD on 20 Sept 83. The NET ident changed to 430880, the ADS ident changed to 373a00, and the SITE names changed to Cottonwood.
Huron Well Field (430061)	372a	44	21	18	98	17	38	398	00	11/83		
UAPSP (08)												
Brookings (19)	245a	44	19	54	96	49	45	499	00	10/81	1/82	Operated under normal UAPSP sampling protocol in last quarter of 1981
									01	1/82	10/82	UAPSP sampling protocol expanded to include NITRITE in CY 82
									02	10/82	1/83	Strong acid analysis discontinued on Sept 30, 1982.
									03	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol
Brookings-2 (19 smplr 2)	245b	44	19	54	96	49	45	499	00	11/81	1/82	Operated under normal UAPSP sampling protocol in last quarter of 1981
									01	1/82	10/82	UAPSP sampling protocol expanded to include NITRITE in CY 82
									02	10/82	1/83	Strong acid analysis discontinued on Sept 30, 1982.
									03	1/83	2/83	Discontinued analysis of NITRITE on 1/1/83. Discontinued operation of co-located sampler on 2/23/83. This ADS ident TERMINATED.
Tennessee (47)												
NADP (01)												
Elkmont (441190)	028a	35	39	52	83	35	25	640	00	8/80		
Walker Branch (440040)	171a	35	57	41	84	17	14	341	00	3/80		See co-located MAP3S site 171b.
MAP3S/PCN (06)												

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Oak Ridge (9)	171b	35 57 41	84 17 14	341	00	1/81		See co-located NADP/NTN site 171a. This MAP3S site started operation with Aerochem Metrics model 301-A2 sampler; surface area = 640 sq cm.
UAPSP (08)								
Alamo (12)	246a	35 47 32	89 08 03	112	00	10/81	10/82	Operated under normal UAPSP sampling protocol beginning in last quarter of 1981.
					01	10/82		Strong acid analysis discontinued on Sept 30, 1982.
Giles County (06)	155a	35 17 05	86 54 11	244	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	6/80	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 155b. Starting 1/1/80 only one sampler in operation at this EPRI/SURE site. Station TERMINATED on June 30, 1980.
Giles County-2 (06 smplr 2)	155b	35 17 05	86 54 11	244	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	1/80	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 155a. The second sampler was removed after one year, this ADS number DISCONTINUED.
EPA-IV (13)								
Center Hill (TNCENTERHI)	264a	36 02 20	85 43 59	305	00	8/82	10/83	Samples analyzed by RTI
					01	10/83		Samples analyzed by Global Geochem after 10/1/83
TVA (16)								
ALLEN 7 (ALLEN 7)	383a	35 05 49	90 04 56	73	00	11/78		Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
BULL RUN 8 (BULL RUN 8)	384a	35 58 52	84 13 32	250	00	11/78	8/81	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
CUMBERLAND 1 (CUMBERLA 1)	387a	36 26 23	87 36 17	180	00	6/77	12/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
CUMBERLAND 14 (CUMBERLA14)	391a	36 16 20	87 45 53	0	00	6/77	9/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
CUMBERLAND 16 (CUMBERLA16)	392a	36 31 14	87 33 48	174	00	6/77	9/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
CUMBERLAND 18 (CUMBERLA18)	393a	36 27 58	87 34 52	216	00	6/77	9/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
CUMBERLAND 21 (CUMBERLA21)	395a	36 10 13	87 50 50	0	00	7/77	12/79	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
CUMBERLAND 22 (CUMBERLA22)	396a	36 26 07	87 36 08	178	00	7/77		Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).

Tennessee, TVA, CUMBERLAND 3

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d	m	s	LONGITUDE d	m	s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
CUMBERLAND 3 (CUMBERLA 3)	388a	36	36	05	87	27	03	165	00	6/77	9/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
CUMBERLAND 7 (CUMBERLA 7)	389a	36	19	29	87	41	30	195	00	6/77	9/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
CUMBERLAND 8 (CUMBERLA 8)	390a	36	25	58	87	42	30	130	00	6/77	9/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
GALLLATIN 6 (GALLATIN 6)	397a	36	17	21	86	23	11	158	00	11/78	3/81	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
GILES COUNTY (GILES CNTY)	155c	35	17	05	86	54	11	244	00	12/78		Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
JOHN SEVIER 4 (JOHN SEVI4)	398a	36	26	02	85	58	40	347	00	11/78		Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
JOHNSONVILLE 11 (JOHNSONV11)	399a	36	01	33	88	02	43	131	00	11/78	3/81	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
KINGSTON 2 (KINGSTON 2)	400a	35	59	17	84	32	40	317	00	1/79	7/81	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
LOUDON (LOUDON)	411a	35	38	30	84	18	45	271	00	5/78	10/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
WATTS BAR 2 (WATTS BAR2)	405a	35	37	46	84	46	29	238	00	1/79	7/81	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
Texas (48)												
NADP (01)												
Attwater Prairie C (451040)	375a	29	41	20	96	16	29	0	00	7/84		
Beeville (450350)	374a	28	27	55	97	42	40	75	00	2/84		
Forest Seed Ctr (453800)	254a	31	33	38	94	51	39	84	00	8/81		
K-Bar (450425)	070a	29	18	07	103	10	38	1056	00	4/80		
LBJ National Grass (455640)	378a	33	23	30	97	38	23	312	00	9/83		
Longview (452180)	282a	32	22	53	94	42	49	107	00	6/82		
Sonora (451650)	376a	30	15	40	100	33	18	690	00	6/84		
Throckmorton (455180)	377a	33	16	28	99	12	56	424	00	5/84		
Victoria (455350)	071a	28	50	43	96	55	12	31	00	4/80		
UAPSP (08)												
Marshall (17)	247a	32	39	58	94	25	06	81	00	10/81	1/82	Operated under normal UAPSP sampling protocol in last quarter of 1981
									01	1/82	10/82	UAPSP sampling protocol expanded to include NITRITE in CY 82
									02	10/82	1/83	Strong acid analysis discontinued on Sept 30, 1982.
									03	1/83		Discontinued analysis of NITRITE, otherwise no change in protocol

Utah, NADP, Cedar Mt

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Utah (49)								
NADP (01)								
Cedar Mt (460280)	069a	39 10 15	110 37 05	2356	00	5/81	1/84	Considered nonstandard by NADP because insufficient field data was provided to determine if sampling protocols were followed. Operations TERMINATED on 1/17/84.
Logan (460120)	357a	41 39 30	111 53 49	1370	00	12/83		
Vermont (50)								
NADP (01)								
Bennington (470100)	249a	42 52 34	73 09 48	305	00	4/81		
UAPSP (08)								
Underhill Center (20)	248a	44 31 42	72 52 08	442	00	10/81	10/82	Operated under normal UAPSP sampling protocol beginning in last quarter of 1981.
					01	10/82		Strong acid analysis discontinued on Sept 30, 1982. Co-located sampler 248b began operations on 10/9/83.
Underhill Center-2 (20 smplr 2)	248b	44 31 42	72 52 08	442	00	10/83		Start of operation as co-located sampler to site 248a on 10/9/83.
Virginia (51)								
NADP (01)								
Big Meadows (482890)	250a	38 30 51	78 25 45	1047	00	5/81	6/82	
					01	6/82		On 15 June 82 site moved approximately 1.5km W to a more accessible location. No change made to NET ident or ADS ident.
Horton's Station (481300)	073a	37 20 06	80 33 28	1051	00	7/78		Site is considered nonstandard by NADP because location of collector does not follow siting guidelines.
MAP3s/PCN (06)								
Virginia (4)	072a	38 02 23	78 32 31	172	00	12/76	8/77	This MAP3S/PCN site started operation with the Battelle Northwest collector, surface area = 490 sq cm.
					01	8/77	9/77	Analysis method changed starting 4-aug-77. NH4 changed from Colorimetry to Ion Chromatography. NA and K changed from Flame Emission Spectrophy to Ion Chromatography.
					02	9/77	4/81	Analysis method changed; new method in use after September 1977. CA and MG changed from Flame Emission Spectrometry to Flame Atomic Absorbtion on September 14, 1977. SO4 changed from Colorimetry to Colimetry with field fixation starting 9/6/77.
					03	4/81		Sample collection instrument changed from Battelle Northwest to Aerochem Metrics model 302-A2 with surface area = 640 sq cm.
TVA (16)								
LOVES MILL (LOVES MILL)	412a	36 44 12	81 41 13	663	00	5/78		Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).

Washington, NADP, La Grande

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Washington (53)								
NADP (01)								
La Grande (492180)	353a	46 50 09	122 17 13	607	00	4/84		
Marblemount (491940)	369a	00 00 00	00 00 00	796	00	2/84		
Olympic Nat. Park (491410)	074a	47 51 36	123 55 57	176	00	5/80		
Sullivan Lake (491540)	370a	48 50 32	117 17 04	0	00	5/84		
West Virginia (54)								
NADP (01)								
Babcock State Park (500460)	379a	37 58 47	80 56 59	631	00	9/83		
Parsons (501860)	075a	39 05 23	79 39 44	305	00	7/78		
UAPSP (08)								
Lewisburg (09)	158a	37 50 50	80 25 00	701	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	12/80	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 158b. Starting 1/1/80 only one sampler in operation at this EPRI/SURE site. Station TERMINATED on December 31, 1980.
Lewisburg-2 (09 smplr 2)	158b	37 50 50	80 25 00	701	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
					01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 158a. The second sampler was removed after one year, this ADS number DISCONTINUED.
Wisconsin (55)								
NADP (01)								
Lake Dubay (512800)	283a	44 39 53	89 39 08	338	00	6/82		
Lake Geneva (513680)	328b	88 30 01	42 34 49	290	00	6/84		This NADP/NTN site was formerly operated by WISC on a daily sampling protocol. See ADS ident 328a.
Spooner (513700)	077a	45 49 21	91 52 30	331	00	6/80		
Trout Lake (513640)	076a	46 03 09	89 39 11	501	00	1/80		
GLAD (14)								
Cornucopia (510180001)	322a	46 51 44	91 08 13	195	00	2/81		
Green Bay (510360001)	323a	44 31 47	87 55 11	201	00	3/81		
Manitowoc (513600001)	324a	44 03 56	87 39 23	189	00	7/81		
Milwaukee (5122000035)	325a	43 04 31	87 53 02	205	00	3/81		
WISC (15)								

Wisconsin, WISC, Geneva Lake

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Geneva Lake (GENEVA)	328a	42 34 48	88 30 03	27	00	3/82	4/83	Aluminum analysis on precipitation samples was performed.
					01	4/83	9/83	Aluminum analysis on precipitation samples discontinued.
					02	9/83	1/84	Markson Model 4503 SelectroMark pH and conductivity meter replaced with a Fisher Accument pH meter and YSI Model 35 conductivity meter.
					03	1/84	5/84	Atomic absorption analysis discontinued; plasma emission spectroscopy used for calcium and magnesium analysis. Operation as WISC site ended 5/31/84. See follow-on operation as site 328b under NADP/NTN weekly sampling protocol.
Legend Lake (LEGEND)	327a	44 53 30	88 37 47	27	00	4/82	4/83	Aluminum analysis on precipitation samples were performed.
					01	4/83	11/83	Aluminum analysis on precipitation samples were discontinued.
					02	11/83	12/83	Bulk sample collection through 12-28-83.
					03	12/83	5/84	Site was repeatedly vandalized. New collectors and rain gauges were installed. Atomic absorption analysis discontinued; plasma emission spectroscopy used for calcium and magnesium analysis. Site down between 2-27-84 and 3-16-84. However, no events were recorded during this period. Site TERMINATED on 5/31/84.
Round Lake (ROUND)	326a	46 13 24	91 56 10	32	00	8/82	4/83	Aluminum analysis on precipitation samples was performed.
					01	4/83	7/83	Aluminum analysis on precipitation samples was discontinued.
					02	7/83	11/83	Markson Model 4503 SelectMark pH meter replaced with Corning Model 125 pH meter.
					03	11/83	1/84	Markson conductivity bridge replaced with YSI Model 35 conductivity meter.
					04	1/84	5/84	Atomic absorption analysis discontinued; plasma emission spectroscopy analysis used for calcium and magnesium analysis. Site TERMINATED on 5/31/84.
Wyoming (56)								
NADP (01)								
Newcastle (520820)	255a	43 52 24	104 11 32	1466	00	8/81		
Pinedale (520680)	284a	42 55 44	109 47 12	2388	00	1/82		
Yellowstone (520860)	078a	44 55 02	110 25 13	1912	00	6/80		
American Samoa (60)								
NADP (01)								
American Samoa (530190)	172a	-14 15 08	170 33 48	73	00	5/80		Note that location is SOUTH Latitude, WEST Longitude. Considered nonstandard by NADP prior to 12 Jan 1982 because the collection equipment was nonstandard.

Alberta, NADP, Lethbridge (b)

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Alberta (80)								
NADP (01)								
Lethbridge (b) (775070)	107b	49 38 13	112 47 16	913	00	4/81	4/84	NADP comparison site with CANSAP network, April 1981 - April 1984. See ADS ident 107a. Comparison involved the comparability of U.S. and Canadian data. Operations TERMINATED on 4/3/84.
CANSAP (05)								
Coronation (04 030)	084a	52 04 00	111 27 00	791	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Edson (04 010)	088a	53 35 00	116 27 00	925	00	1/74	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Fort McMurray (04 000)	092a	56 39 00	111 13 00	369	00	4/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Lethbridge (a) (04 040)	107a	49 38 13	112 47 16	913	00	7/77	3/79	Sampler is either Sangamo model A or B CANSAP site 107a is co-located with NADP site 107b.
					01	3/79	1/80	Collector: Sangamo model C CANSAP site 107a is co-located with NADP site 107b.
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. CANSAP site 107a is co-located with NADP site 107b.
Rocky Mtn House (04 020)	134a	52 23 00	114 55 00	988	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
British Columbia (81)								
CANSAP (05)								
Fort Nelson (03 000)	093a	58 50 00	122 36 00	383	00	6/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Fort St. John (03 010)	096a	56 14 00	120 44 00	695	00	6/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.

British Columbia, CANSAP, Kelowna

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d	m	s	LONGITUDE d	m	s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Kelowna (03 070)	104a	49	58	00	119	23	00	430	00	4/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Collector: Sangamo model C
									02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Port Hardy (03 040)	114a	50	41	00	127	22	00	22	00	5/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Collector: Sangamo model C
									02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Prince George (03 030)	115a	53	53	00	122	40	00	691	00	4/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Collector: Sangamo model C
									02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Puntzi Mountain (03 080)	286a	52	07	00	124	05	00	911	00	4/74	1/77	Site operations TERMINATED on 1/1/77.
Revelstoke (03 050)	133a	50	58	00	118	11	00	443	00	9/79	1/80	Collector: Sangamo model C
									01	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Terrace (03 020)	124a	54	28	00	128	35	00	217	00	4/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Collector: Sangamo model C
									02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Vancouver (03 060)	128a	49	11	00	123	10	00	2	00	8/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Collector: Sangamo model C
									02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Manitoba (02)												
CANSAP (05)												
Bissett (06 030)	080a	51	02	00	95	40	00	258	00	5/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Collector: Sangamo model C
									02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Churchill (06 000)	083a	58	45	00	94	04	00	29	00	6/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Collector: Sangamo model C
									02	1/80	10/82	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 10/31/82.
Dauphin (06 020)	086a	51	06	00	100	03	00	305	00	4/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Collector: Sangamo model C
									02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.

Manitoba, CANSAP, The Pas

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
The Pas (06 010)	125a	53 58 00	101 06 00	273	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
New Brunswick (83)								
CANSAP (05)								
Acadia Fes (09 010)	090a	46 00 00	66 22 00	61	00	11/79	1/80	Collector: Sangamo model C
					01	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Charlo (09 000)	081a	48 00 00	66 20 00	38	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
St. John (09 020)	119a	45 19 00	65 53 00	109	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Newfoundland (84)								
CANSAP (05)								
Gander (12 010)	097a	48 57 00	54 34 00	151	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Goose (12 000)	098a	53 19 00	60 25 00	36	00	7/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Stephenville (12 020)	123a	48 32 00	58 33 00	26	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
APN (09)								
Baie d'Espoir (12 030)	145a	47 59 00	55 48 00	23	00	11/81		This APN site started operation with the Sangamo model C collector.
Northwest Territories (85)								
CANSAP (05)								

Northwest Territories, CANSAP, Fort Reliance

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d	m	s	LONGITUDE d	m	s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Fort Reliance (01 020)	094a	62	43	00	109	10	00	164	00	7/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Collector: Sangamo model C
									02	1/80	4/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Site terminated on Apr. 1, 1983.
Fort Simpson (01 030)	095a	61	45	00	121	14	00	169	00	12/73	8/78	NOT SURE OF HISTORY IN THIS TIME PERIOD
Hay River (01 040)	099a	60	50	00	115	47	00	166	00	2/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Inuvik (01 010)	101a	68	18	00	133	29	00	68	00	6/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Collector: Sangamo model C
									02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Mould Bay (01 000)	089a	76	14	00	119	20	00	15	00	8/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Collector: Sangamo model C
									02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Nova Scotia (86)												
NADP (01)												
Rejimkujik (c) (775048)	103c	44	25	58	65	12	20	152	00	5/81	4/84	Co-located with APN site 103b. NADP comparison site with CANSAP network, April 1981 - April 1984. See ADS ident 103a. Comparison involved the comparability of U.S. and Canadian data. Operations TERMINATED on 4/3/84.
CANSAP (05)												
Rejimkujik (a) (10 020)	103a	44	25	58	65	12	20	127	00	6/78	3/79	Sampler is either Sangamo model A or B. See co-located APN daily sampler, site 103b Sampler is either Sangamo model A or B. See co-located APN daily sampler, site 103b See also the co-located NADP weekly collector at site 103c.
									01	3/79	1/80	Collector: Sangamo model C. See co-located APN daily sampler, site 103b See also the co-located NADP weekly collector at site 103c.
									02	1/80	4/84	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. See co-located APN daily sampler, site 103b. Sample collection operations TERMINATED 4/1/84. See also the co-located NADP weekly collector at site 103c.

Nova Scotia, CANSAP, Sable Island

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Sable Island (10 010)	117a	43 56 00	60 01 00	4	00	3/75	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Shelburne (10 030)	121a	43 43 00	65 15 00	30	00	1/76	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Truro (10 000)	127a	45 22 00	63 16 00	40	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
APN (09)								
Kejimkujik (b) (10 019)	103b	44 25 58	65 12 20	152	00	5/79		This APN site started operation with the Sangamo model C collector. See co-located CANSAP monthly sampler, site 103a See also the co-located NADP weekly collector at site 103c.
Ontario (87)								
NADP (01)								
Mount Forest (b) (776000)	110b	43 59 29	80 44 46	410	00	5/81	3/84	NADP comparison site with CANSAP network, April 1981 - April 1984. See ADS ident 110a. Comparison involved the comparability of U.S. and Canadian data. Operations TERMINATED on 3/20/84.
CANSAP (05)								
Armstrong (07 140)	287a	50 17 00	88 54 00	323	00	2/74	11/76	
Atikokan (07 050)	079a	48 45 00	91 37 00	393	00	4/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Dorset (a) (07 060)	087a	45 13 00	78 56 00	319	00	7/79	1/80	Collector: Sangamo model C See co-located APIOS daily sampler, site 087b. See co-located APIOS monthly sampler, site 087c.
					01	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. See co-located APIOS daily sampler, site 087b. See co-located APIOS monthly sampler, site 087c.

Ontario, CANSAP, ELA (a)

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d	m	s	LONGITUDE d	m	s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
ELA (a) (07 023)	135a	49	40	00	93	43	00	368	00	8/79	1/80	Collector: Sangamo model C See co-located APN daily sampler, site 135b.
									01	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. See co-located APN daily sampler, site 135b.
Harrow (07 120)	100a	42	02	00	82	54	00	191	00	12/79	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Kapuskasing (07 030)	102a	49	24	00	82	26	00	227	00	10/79	1/80	Collector: Sangamo model C
									01	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Kingston (07 070)	106a	44	13	00	76	36	00	92	00	5/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Collector: Sangamo model C
									02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Moosonee (07 010)	109a	51	16	00	80	39	00	10	00	6/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Collector: Sangamo model C
									02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Mount Forest (a) (07 090)	110a	43	59	29	80	44	46	415	00	7/73	3/79	Sampler is either Sangamo model A or B. CANSAP site 110a is co-located with NADP site 110b for intercomparison.
									01	3/79	1/80	Collector: Sangamo model C. CANSAP site 110a is co-located with NADP site 110b for intercomparison.
									02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. CANSAP site 110a is co-located with NADP site 110b for intercomparison.
Peterborough (07 080)	112a	44	14	00	78	21	00	191	00	6/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Collector: Sangamo model C
									02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Pickle Lake (07 020)	113a	51	28	00	90	12	00	369	00	2/77	3/79	Sampler is either Sangamo model A or B
									01	3/79	1/80	Collector: Sangamo model C
									02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.

Ontario, CANSAP, Simcoe

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Simcoe (07 110)	122a	42 51 00	80 16 00	241	00	6/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Trout Lake (07 000)	126a	53 50 00	89 52 00	220	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Wawa (07 130)	129a	47 58 00	84 47 00	287	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	9/79	NOT SURE OF HISTORY IN THIS TIME PERIOD
Windsor (07 150)	131a	42 16 00	82 58 00	190	00	6/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	11/79	NOT SURE OF HISTORY IN THIS TIME PERIOD
APIOS-D (07)								
Balsam Lake (3031)	225a	44 37 35	78 51 22	259	00	11/80	2/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					01	2/81	5/81	Cold weather collector = SES BULK sampler and Nepher shielded gauge
					02	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					03	11/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge
					04	5/82		Warm weather collector and gauge
Charleston Lake (4011)	227a	44 29 54	76 02 30	92	00	1/81	5/81	Cold weather collector = SES BULK sampler and Nepher shielded gauge
					01	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					02	11/81	4/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge
					03	4/82		Warm weather collector and gauge

Ontario, APIOS-D, Dorset (b)

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Dorset (b) (3011)	087b	45 13 23	78 55 49	320	00	7/80	1/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge. See co-located CANSAP monthly sampler, site 087a. See co-located APIOS monthly sampler, site 087c.
					01	1/81	5/81	Cold weather collector = SES BULK sampler and Nepher shielded gauge See co-located CANSAP monthly sampler, site 087a. See co-located APIOS monthly sampler, site 087c.
					02	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge. See co-located CANSAP monthly sampler, site 087a. See co-located APIOS monthly sampler, site 087c.
					03	11/81	4/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge See co-located CANSAP monthly sampler, site 087a. See co-located APIOS monthly sampler, site 087c.
					04	4/82		Warm weather collector and gauge See co-located CANSAP monthly sampler, site 087a. See co-located APIOS monthly sampler, site 087c.
Forbes Twsp. (6081)	234a	48 34 58	89 38 56	324	00	9/81	10/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					01	10/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge
					02	5/82		Warm weather collector and gauge
Graham Lake (4031)	229a	44 35 22	75 51 44	130	00	10/80	2/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					01	2/81	5/81	Cold weather collector = SES BULK sampler and Nepher shielded gauge
					02	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					03	11/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge
					04	5/82		Warm weather collector and gauge
Lac Le Croix (b) (6061)	208b	48 21 14	92 12 32	368	00	9/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge. See co-located APIOS monthly sampler, site 208a.
					01	11/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge See co-located APIOS monthly sampler, site 208a.
					02	5/82		Warm weather collector and gauge See co-located APIOS monthly sampler, site 208a.

Ontario, APIOS-D, Longwoods (b)

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Longwoods (b) (1011)	143b	42 53 02	81 28 50	239	00	7/80	1/81	Warm weather collector - Aerochem Metrics 301 with standard rain gauge. See co-located APN daily sampler, site 143a.
					01	1/81	5/81	Cold weather collector - SES BULK sampler and Nepher shielded gauge See co-located APN daily sampler, site 143a.
					02	5/81	11/81	Warm weather collector - Aerochem Metrics 301 with standard rain gauge. See co-located APN daily sampler, site 143a.
					03	11/81	5/82	Cold weather collector - SES BULK sampler and Nepher shielded gauge See co-located APN daily sampler, site 143a.
					04	5/82		Warm weather collector and gauge See co-located APN daily sampler, site 143a.
Melbourne (1021)	221a	42 47 15	81 33 23	213	00	11/80	2/81	Warm weather collector - Aerochem Metrics 301 with standard rain gauge.
					01	2/81	5/81	Cold weather collector - SES BULK sampler and Nepher shielded gauge
					02	5/81	12/81	Warm weather collector - Aerochem Metrics 301 with standard rain gauge.
					03	12/81	5/82	Cold weather collector - SES BULK sampler and Nepher shielded gauge
					04	5/82		Warm weather collector and gauge
Nithgrove (3021)	224a	45 12 01	79 04 14	335	00	1/81	5/81	Cold weather collector - SES BULK sampler and Nepher shielded gauge
					01	5/81	11/81	Warm weather collector - Aerochem Metrics 301 with standard rain gauge.
					02	11/81	4/82	Cold weather collector - SES BULK sampler and Nepher shielded gauge
					03	4/82		Warm weather collector and gauge
North Easthope (1031)	222a	43 24 21	80 53 35	375	00	11/80	1/81	Warm weather collector - Aerochem Metrics 301 with standard rain gauge.
					01	1/81	5/81	Cold weather collector - SES BULK sampler and Nepher shielded gauge
					02	5/81	11/81	Warm weather collector - Aerochem Metrics 301 with standard rain gauge.
					03	11/81	5/82	Cold weather collector - SES BULK sampler and Nepher shielded gauge
					04	5/82		Warm weather collector and gauge
Quetico Centre (6071)	233a	48 24 44	91 12 08	420	00	10/81	5/82	Cold weather collector - SES BULK sampler and Nepher shielded gauge
					01	5/82		Warm weather collector and gauge
Railton (4021)	228a	44 22 34	76 35 33	137	00	7/80	1/81	Warm weather collector - Aerochem Metrics 301 with standard rain gauge.
					01	1/81	4/81	Cold weather collector - SES BULK sampler and Nepher shielded gauge
					02	4/81	11/81	Warm weather collector - Aerochem Metrics 301 with standard rain gauge.
					03	11/81	5/82	Cold weather collector - SES BULK sampler and Nepher shielded gauge
					04	5/82		Warm weather collector and gauge

Ontario, APIOS-D, Raven Lake

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Raven Lake (3041)	226a	44 36 40	78 54 43	274	00	2/81	5/81	Cold weather collector = SES BULK sampler and Nepher shielded gauge
					01	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					02	11/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge
					03	5/82		Warm weather collector and gauge
Wellesley (2011)	223a	43 28 13	80 45 35	344	00	1/81	5/81	Cold weather collector = SES BULK sampler and Nepher shielded gauge
					01	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					02	11/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge
					03	5/82		Warm weather collector and gauge
Whitman Creek (4041)	230a	44 29 07	76 49 19	137	00	10/80	11/80	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					01	11/80	5/81	Cold weather collector = SES BULK sampler and Nepher shielded gauge
					02	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
					03	11/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge
					04	5/82		Warm weather collector and gauge
APN (09)								
Algoma (07 054)	140a	47 06 00	84 06 00	265	00	9/80		This APN site started operation with the Sangamo model C collector.
Chalk River (07 056)	141a	46 06 00	77 24 00	122	00	11/78	3/79	Sampler is either Sangamo model A or B
					01	3/79		Collector: Sangamo model C
ELA (b) (07 024)	135b	49 40 00	93 43 00	368	00	11/78	3/79	Sampler is either Sangamo model A or B See co-located CANSAP monthly sampler, site 135a.
					01	3/79		Collector: Sangamo model C See co-located CANSAP monthly sampler, site 135a.
Long Point (07 094)	142a	42 60 00	80 50 00	175	00	11/78	11/82	This APN site started operation with the Sangamo model C collector. Site moved to ADS ident 143a on 11/30/82.
Longwoods (a) (07 100)	143a	42 53 00	81 29 00	239	00	12/82		This APN site started operation with the Sangamo model C collector. See co-located APIOS daily sampler, site 143b.
APIOS-C (12)								
Alvinston (1081)	180a	42 49 36	81 50 04	221	00	9/80	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in Noverber, 1982

Ontario, APIOS-C, Attawapiskat

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d	m	s	LONGITUDE d	m	s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Attawapiskat (5081)	202a	52	56	00	82	24	00	9	00	9/80	1/82	Sample collected on last working day of each month.
									01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
									02	11/82	2/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Azure Lake (5151)	417a	47	28	12	81	52	30	244	00	7/83		Site replaced ADS site 199a in July, 1983.
Bear Island (5041)	198a	46	58	22	80	04	40	305	00	5/80	1/82	Sample collected on last working day of each month.
									01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
									02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Campbellford (3081)	189a	44	17	28	77	47	33	175	00	9/80	1/82	Sample collected on last working day of each month.
									01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
									02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Cloyne (4091)	418a	44	49	09	77	11	45	259	00	12/84		Site replaced ADS site 191a in December, 1984.
Colchester (1041)	176a	41	59	15	82	55	41	183	00	9/80	1/82	Sample collected on last working day of each month.
									01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
									02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Coldwater (3101)	190a	44	37	31	79	32	08	280	00	8/81	1/82	Sample collected on last working day of each month.
									01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
									02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Dalhousie Mills (4071)	193a	45	19	00	74	28	13	69	00	9/80	1/82	Sample collected on last working day of each month.
									01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
									02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Dorion (6011)	204a	48	50	33	88	36	45	244	00	9/80	1/82	Sample collected on last working day of each month.
									01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
									02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982

Ontario, APIOS-C, Dorset (c)

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Dorset (c) (3011)	087c	45 13 26	78 55 52	320	00	5/80	1/82	Sample collected on last working day of each month. See co-located CANSAP monthly sampler, site 087a. See co-located APIOS daily sampler, site 087b.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time. See co-located CANSAP monthly sampler, site 087a. See co-located APIOS daily sampler, site 087b.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982 See co-located CANSAP monthly sampler, site 087a. See co-located APIOS daily sampler, site 087b.
Ear Falls (6031)	206a	50 38 31	93 13 13	350	00	9/80	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Expt. Lake Area (6091)	210a	49 39 22	93 43 28	123	00	10/81	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Geraldton (6121)	416a	49 48 05	86 46 00	351	00	8/83		Site replaced ADS site 205a in August, 1983.
Golden Lake (4081)	194a	45 36 48	77 12 03	160	00	9/80	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Gowganda (5061)	200a	47 39 04	80 46 32	343	00	7/80	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Huron Park (1191)	183a	43 17 28	81 30 03	250	00	10/81	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982

Ontario, APIOS-C, Kaladar

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d	m	s	LONGITUDE d	m	s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Kaladar (4051)	191a	44	41	31	77	09	18	244	00	9/80	1/82	Sample collected on last working day of each month.
									01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
									02	11/82	11/82	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
												Site replaced by ADS site 418a in December, 1984.
Killarney (5021)	196a	45	59	26	81	29	18	183	00	5/80	1/82	Sample collected on last working day of each month.
									01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
									02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Lac Le Croix (a) (6061)	208a	48	21	14	92	12	32	368	00	12/81	1/82	Sample collected on last working day of each month. See co-located APIOS daily sampler, site 208b.
									01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time. See co-located APIOS daily sampler, site 208b.
									02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982 See co-located APIOS daily sampler, site 208b.
Mattawa (5031)	197a	46	16	45	78	49	19	198	00	8/80	1/82	Sample collected on last working day of each month.
									01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
									02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
McKellar (5011)	195a	45	30	57	79	55	19	244	00	8/80	1/82	Sample collected on last working day of each month.
									01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
									02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Merlin (1051)	177a	42	14	47	82	13	30	191	00	9/80	1/82	Sample collected on last working day of each month.
									01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
									02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Milton (3051)	186a	43 31 05	79 55 54	221	00	9/80	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82	3/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Moonbeam (5071)	201a	49 19 16	82 08 46	244	00	9/80	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Nakina (6021)	205a	50 10 38	86 42 40	320	00	9/80	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82	7/83	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
								Site replaced by ADS site 416a in August, 1983.
Palmerston (1101)	182a	43 48 19	80 54 12	389	00	9/80	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Pickle Lake (6041)	207a	51 27 41	90 12 04	360	00	7/80	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Port Stanley (1061)	178a	42 40 22	81 09 55	213	00	9/80	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Quetico Centre (6071)	209a	48 44 24	91 12 08	420	00	11/81	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982

Ontario, APIOS-C, Ramsey

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Ramsey (5051)	199a	47 26 33	82 20 14	427	00	5/80	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82	7/83	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
								Site replaced by ADS site 417a in July, 1983.
Shallow Lake (1091)	181a	44 34 54	81 05 24	229	00	9/80	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Smith's Falls (4061)	192a	44 56 41	75 57 48	122	00	9/80	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Turkey Lake (5141)	415a	47 03 15	84 24 00	472	00	9/83		
Uxbridge (3061)	187a	44 12 46	79 12 38	244	00	9/80	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Waterloo (2021)	184a	43 28 39	80 35 09	343	00	9/80	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Whitney (5091)	203a	45 32 21	78 15 35	412	00	9/80	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Wilberforce (3071)	188a	45 00 54	78 12 58	396	00	9/80	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982

Ontario, APIOS-C, Wilkesport

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
Wilkesport (1071)	179a	42 42 11	82 21 13	183	00	9/80	1/82	Sample collected on last working day of each month.
					01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					02	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Winisk (6101)	211a	55 12 00	85 08 00	9	00	7/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
					01	11/82		food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Quebec (89)								
CANSAP (05)								
Chibougamau (08 030)	082a	49 49 00	74 25 00	402	00	4/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80	6/82	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 6/30/82.
Fort Chimo (08 000)	091a	58 06 00	68 25 00	36	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80	11/82	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 11/12/C2.
Maniwaki (08 050)	108a	46 23 00	75 58 00	170	00	5/75	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Nitchequon (08 010)	111a	53 12 00	70 54 00	536	00	4/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Quebec City (08 040)	116a	46 48 00	71 24 00	73	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Sept Isles (08 020)	120a	50 13 00	66 15 00	55	00	4/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.

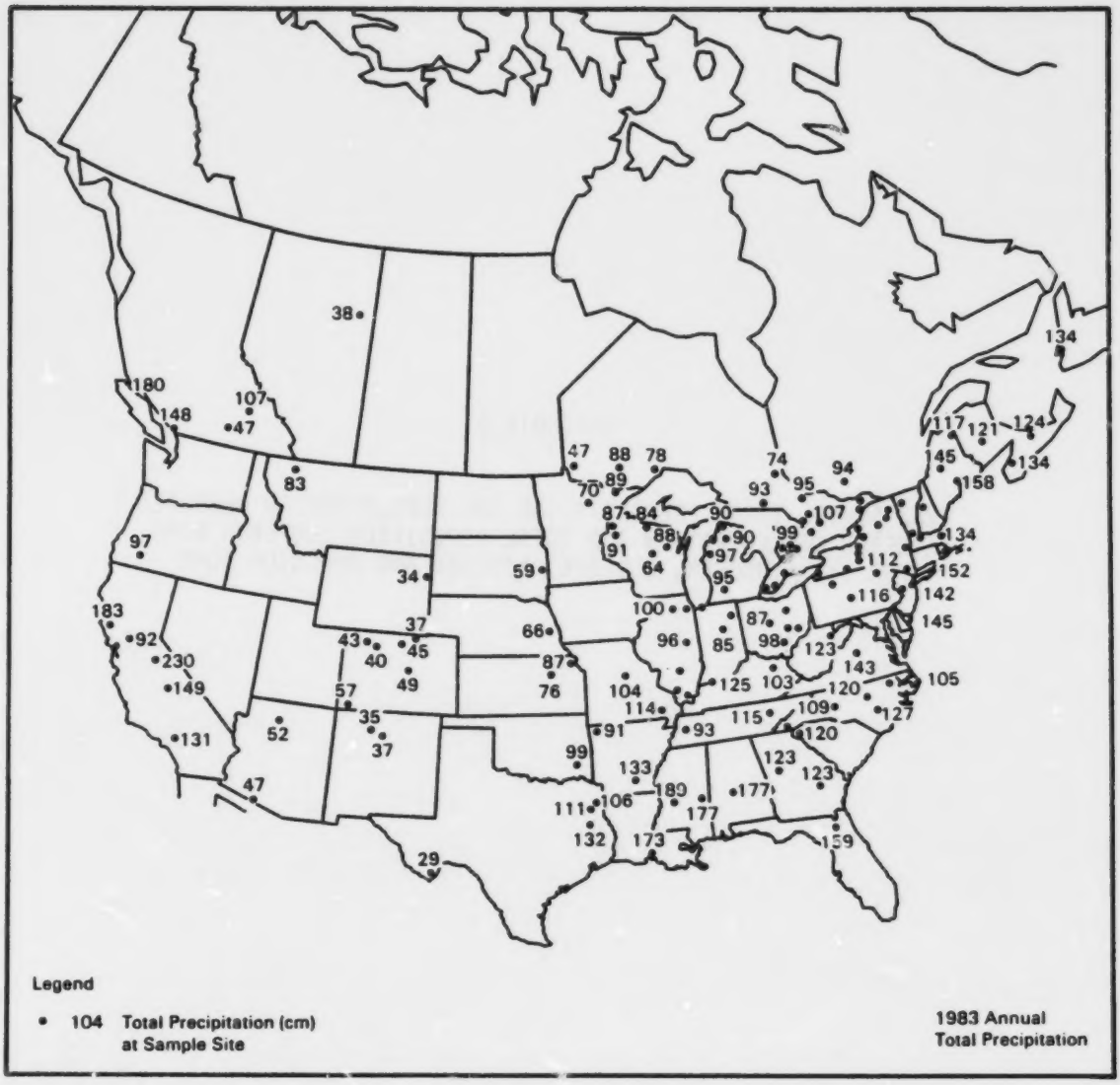
Quebec, CANSAP, St. Hubert

STATE / NETWORK / SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS rev num	REV START	REV END	OPERATING HISTORY
St. Hubert (08 060)	118a	45 31 00	73 25 00	27	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80	11/82	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 11/30/82.
APN (09)								
Montmorency (08 034)	144a	47 19 00	71 09 00	640	00	12/80		This APN site strated operation with the Sangamo model C collector.
Saskatchewan (90)								
CANSAP (05)								
Cree Lake (05 000)	085a	57 21 00	107 08 00	499	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Kindersley (05 010)	105a	51 28 00	109 10 00	683	00	5/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Wynyard (05 020)	132a	51 46 00	104 12 00	561	00	3/74	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
APN (09)								
Cree Lake (05 001)	085b	57 21 00	107 08 00	499	00	7/82		Collector: Sangamo model C
Yukon Territory (91)								
CANSAP (05)								
Whitehorse (02 000)	130a	60 43 00	135 04 00	703	00	7/77	3/79	Sampler is either Sangamo model A or B
					01	3/79	1/80	Collector: Sangamo model C
					02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.

APPENDIX D

1983 ANNUAL TOTAL PRECIPITATION AND PRECIPITATION WEIGHTED AVERAGE CONCENTRATION AND TOTAL DEPOSITION ISOPLETH MAPS FOR pH, HYDROGEN, SULFATE, NITRATE AND AMMONIUM IONS

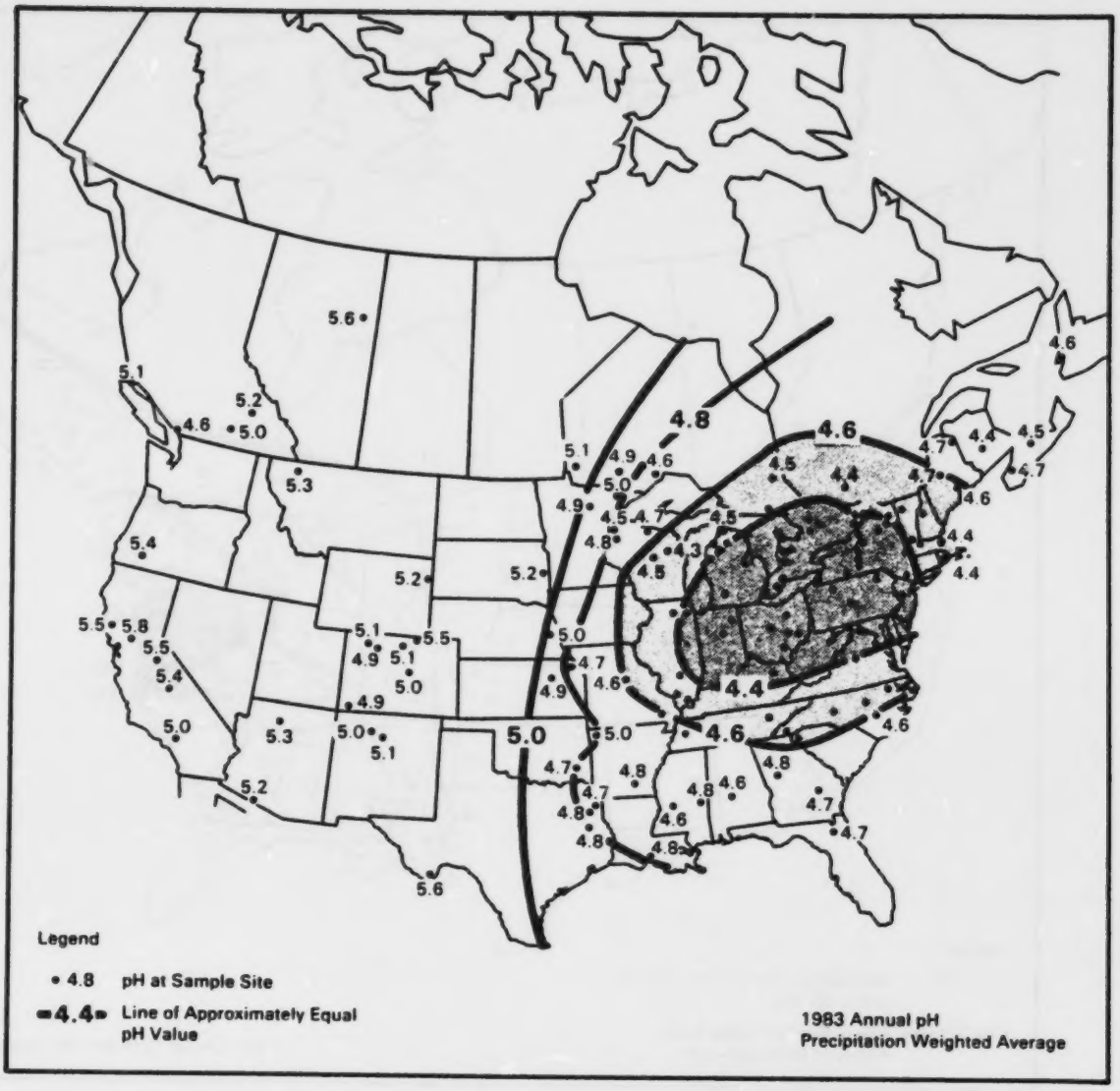
D-1

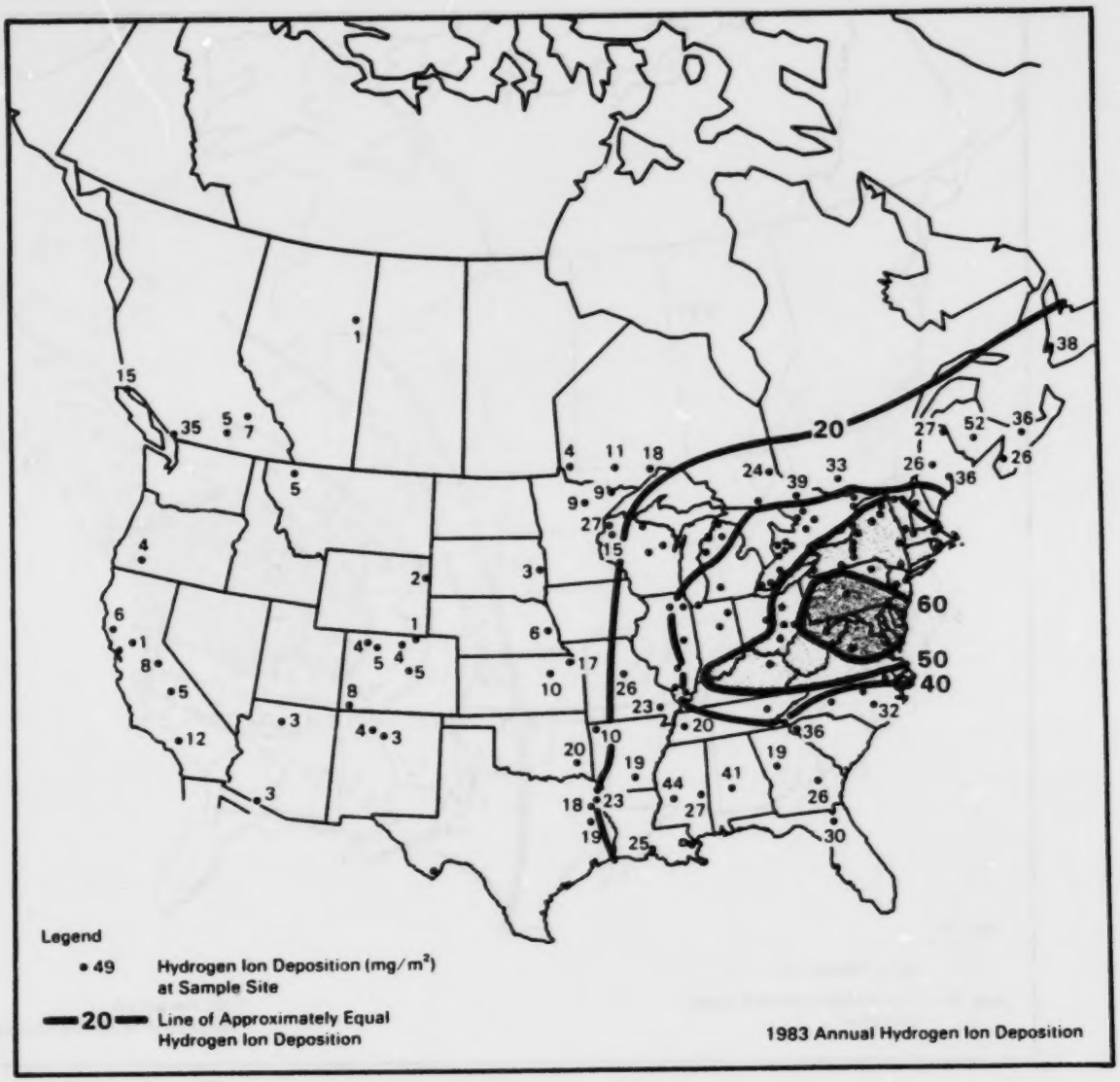


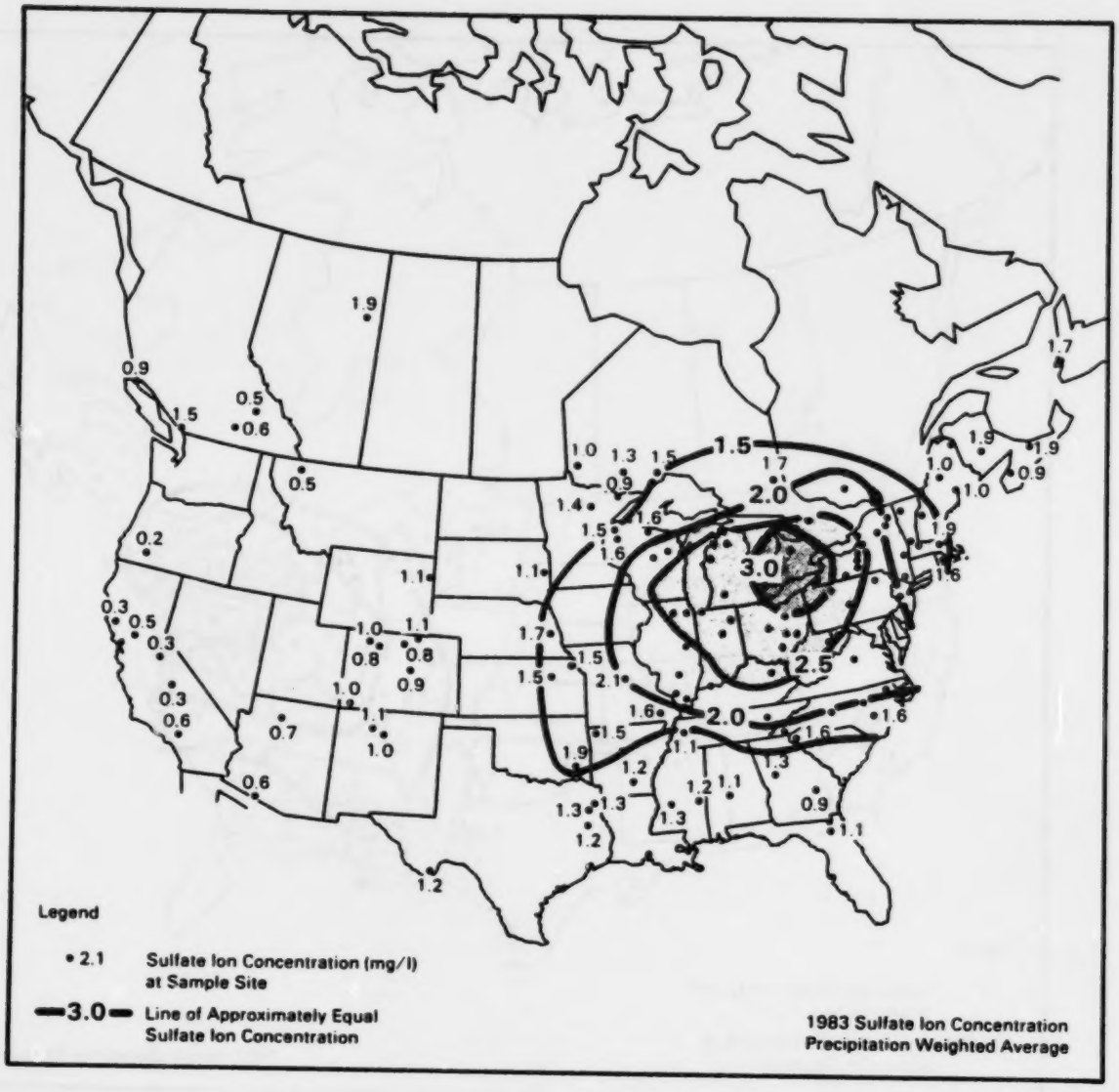
Legend

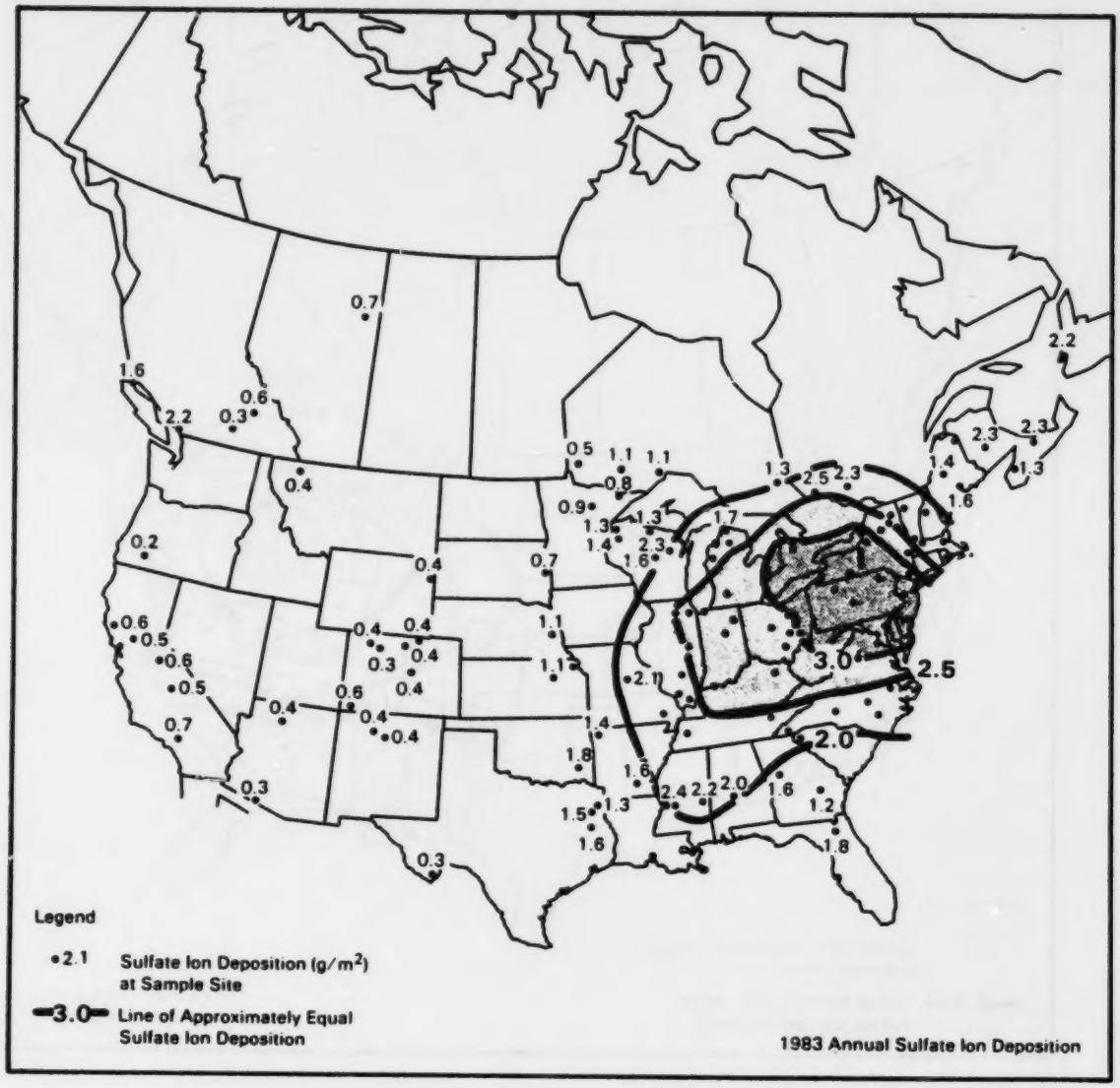
• 104 Total Precipitation (cm) at Sample Site

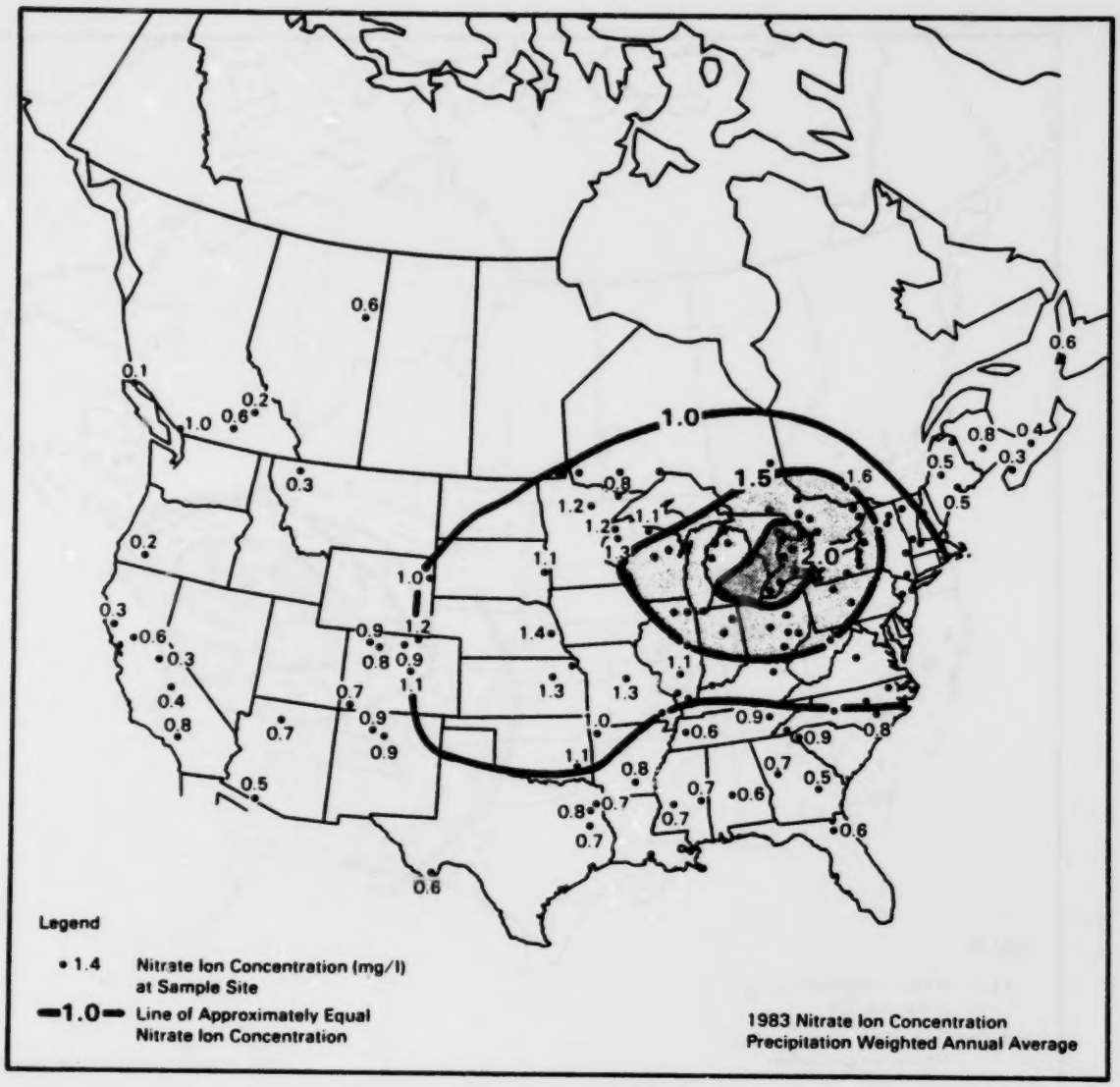
1983 Annual Total Precipitation

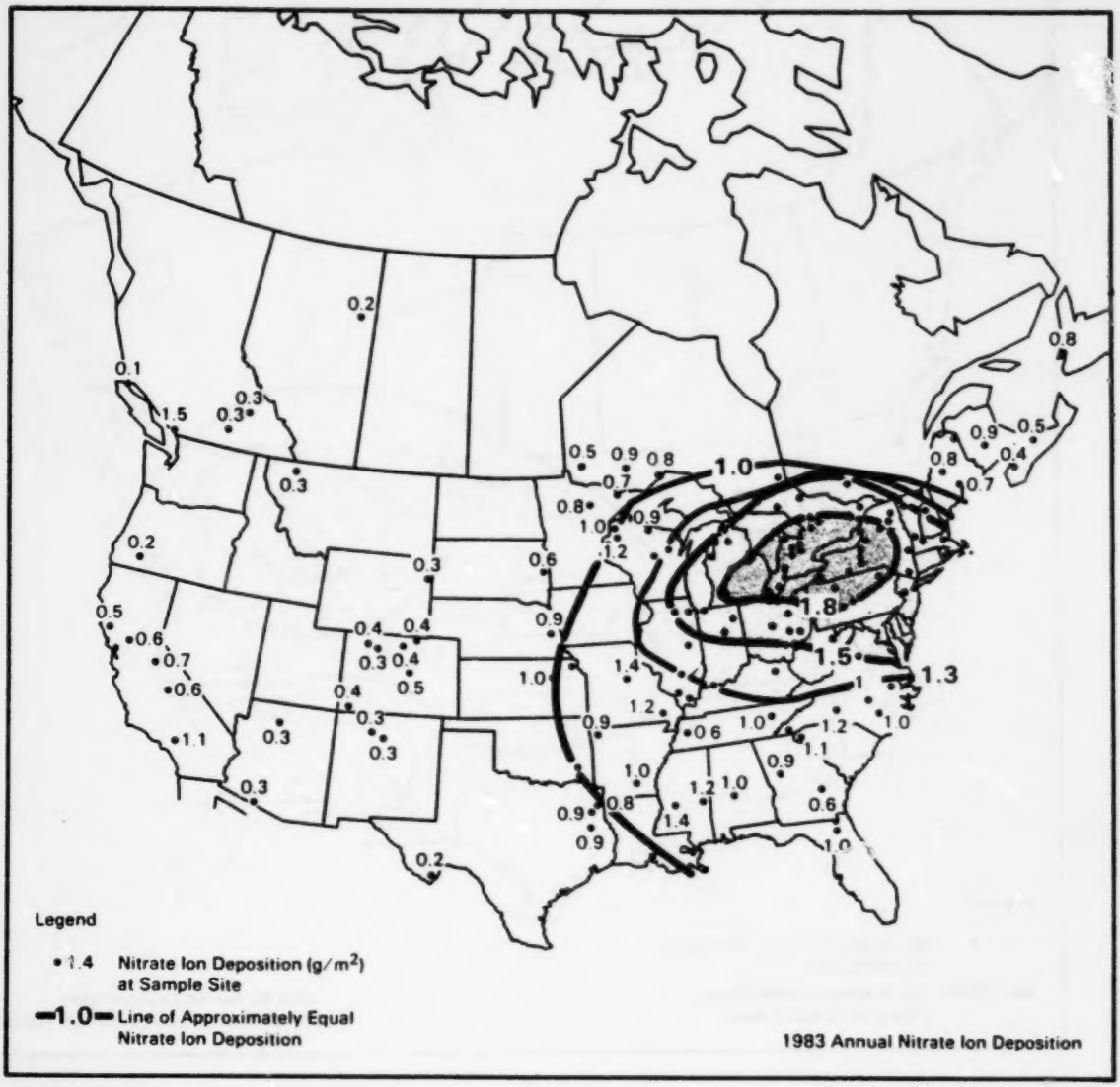

Legend
• 4.8 pH at Sample Site
4.4 Line of Approximately Equal pH Value
1983 Annual pH
Precipitation Weighted Average

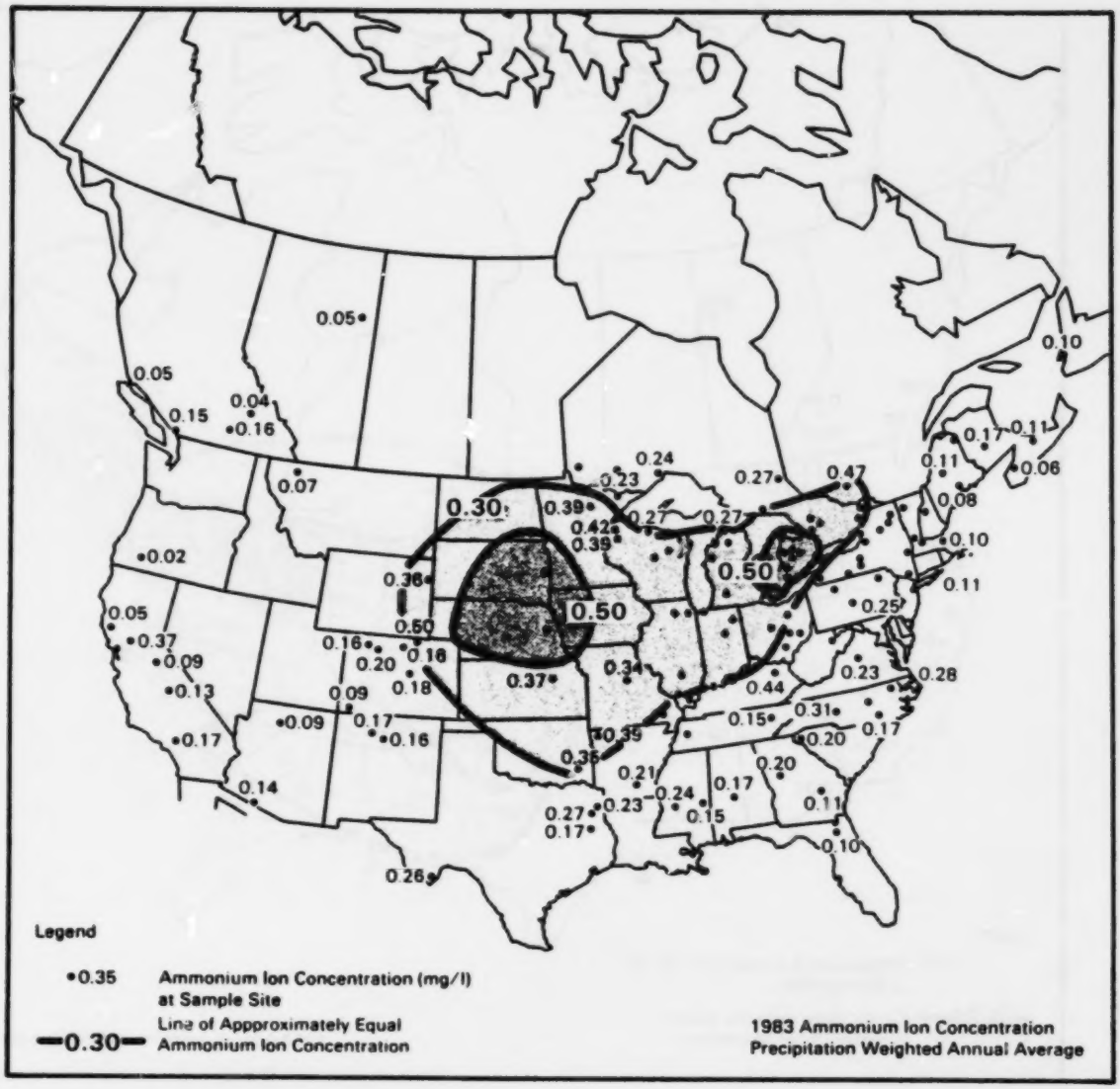

20
60
50
40
Legend
• 49 Hydrogen Ion Deposition (mg/m²) at Sample Site
20 Line of Approximately Equal Hydrogen Ion Deposition
1983 Annual Hydrogen Ion Deposition

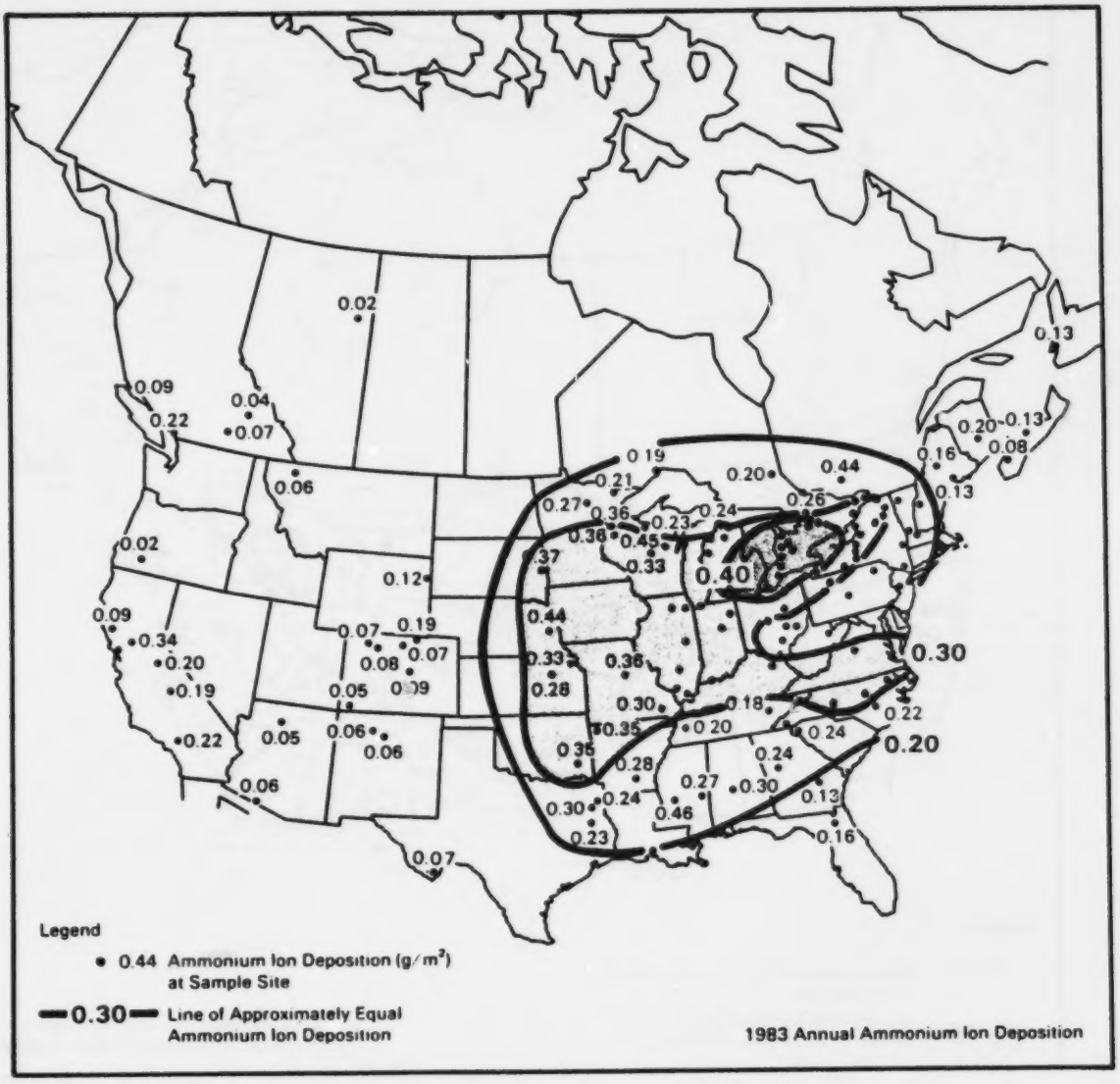

Legend
• 2.1 Sulfate Ion Concentration (mg/l) at Sample Site
3.0 Line of Approximately Equal Sulfate Ion Concentration
1983 Sulfate Ion Concentration
Precipitation Weighted Average


Legend
•2.1 Sulfate Ion Deposition (g/m²) at Sample Site
3.0 Line of Approximately Equal Sulfate Ion Deposition
1983 Annual Sulfate Ion Deposition


Legend
• 1.4 Nitrate Ion Concentration (mg/l) at Sample Site
—1.0— Line of Approximately Equal Nitrate Ion Concentration
1983 Nitrate Ion Concentration
Precipitation Weighted Annual Average


Legend
• 1.4 Nitrate Ion Deposition (g/m²) at Sample Site
—1.0— Line of Approximately Equal Nitrate Ion Deposition
1983 Annual Nitrate Ion Deposition


0.05
0.05
0.15
0.04
0.16
0.07
0.02
0.05
0.37
0.09
0.13
0.17
0.14
0.09
0.17
0.16
0.09
0.18
0.16
0.20
0.18
0.36
0.60
0.30
0.39
0.42
0.39
0.24
0.23
0.27
0.27
0.27
0.47
0.50
0.50
0.37
0.34
0.39
0.35
0.21
0.24
0.23
0.27
0.17
0.17
0.15
0.44
0.15
0.31
0.20
0.20
0.17
0.11
0.10
0.26
0.10
0.17
0.11
0.06
0.11
0.08
0.10
0.11
0.25
0.23
0.28
Legend
•0.35 Ammonium Ion Concentration (mg/l) at Sample Site
—0.30— Line of Appproximately Equal Ammonium Ion Concentration
1983 Ammonium Ion Concentration
Precipitation Weighted Annual Average


0.02
0.13
0.09
0.04
0.22
0.07
0.20
0.13
0.16
0.08
0.19
0.20
0.44
0.21
0.13
0.06
0.27
0.26
0.24
0.36
0.23
0.02
0.36
0.45
0.37
0.33
0.40
0.12
0.09
0.44
0.07
0.19
0.34
0.30
0.08
0.07
0.20
0.33
0.36
0.19
0.05
0.09
0.28
0.30
0.18
0.22
0.22
0.05
0.06
0.35
0.20
0.24
0.20
0.06
0.06
0.35
0.28
0.24
0.27
0.30
0.13
0.06
0.30
0.24
0.46
0.23
0.16
0.07
Legend
0.44 Ammonium Ion Deposition (g/m²) at Sample Site
0.30 Line of Approximately Equal Ammonium Ion Deposition
1983 Annual Ammonium Ion Deposition

APPENDIX E

CONCENTRATION AND DEPOSITION ANNUAL SUMMARIES FOR 1983

COLUMN HEADING DEFINITIONS FOR ANNUAL AVERAGE CONCENTRATION AND DEPOSITION SUMMARY TABLES

Column	Column Head	Explanation
1	STATE	The name of the State or Province in which the sites are located appears as a group heading offset to the left.
2	NETWORK	The network which operates the sites listed below.
3	SITE NAME	The site name used by the network. Appendix A gives other information concerning the site location, operation, and history.
4	PERIOD SUMMARIZED FIRST DATE	First date of the period actually summarized.
5	PERIOD SUMMARIZED LAST DATE	Last date of the period actually summarized.
6	SITE REP	Site representativeness code. It has the following values: REP — Meaning 1 — regionally representative 2A — potentially regionally representative 2 — regional representativeness in question 2B — potentially regionally unrepresentative 3 — regionally unrepresentative blank — representativeness has not been determined
7	% PCL	Percent precipitation coverage length.
8	% TP	Percent total precipitation.
9	% VSL	Percent valid sample length.
10	% VSMP	Percent of samples with measured precipitation that are valid samples.
11	% COL EFF	Percent collection efficiency.
12-15		All refer only to sampling periods when precipitation occurred and an acceptable chemical analysis is available for the ion species being summarized.
12	N	Number of valid samples available for statistical summary.
13	N BDL	Number below detection limit. Number of values in the statistical summary that are reported as being below the detection limit. One-half of the actual detection limit reported is used.
14	WTD MEAN	Precipitation weighted mean. Weighted mean of valid data values is calculated using precipitation depth as weight. For pH, the calculation is completed in terms of hydrogen ion and then converted to pH units.
15	DEP	Total estimated deposition at the site. Obtained by multiplying precipitation weighted mean (Wtd Mean) by total precipitation, converted to appropriate units.
16	TOTAL PRECIP	Total precipitation measured at the site during precipitation coverage period (PCL).

pH

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	Wtd Mean	Total Precip cm
Alabama											
UAPSP											
Selma	Jan 1 83	Jan 1 84	2A	100	100	100	99	96	103	4.63	177.0
Arizona											
NADP											
Grand Canyon	Jan 4 83	Jan 3 84		100	100	88	86	89	36	5.25	51.8
Organ Pipe Mon.	Jan 4 83	Jan 3 84		100	99	90	84	94	26	5.22	46.9
Arkansas											
NADP											
Fayetteville	Jan 4 83	Jan 3 84	2B	98	98	90	91	88	40	4.96	90.6
Warren 2WSW	Jan 4 83	Jan 3 84	2	100	94	88	90	99	43	4.84	132.5
California											
NADP											
Davis Site	Jan 4 83	Jan 3 84		100	100	98	97	90	30	5.82	91.8
Hopland (Ukiah)	Jan 4 83	Jan 3 84		100	100	98	97	99	34	5.46	182.8
Sequoia Nat. Park	Jan 4 83	Jan 3 84		98	93	84	81	101	29	5.44	148.6
Tanbark Flat	Jan 4 83	Jan 3 84		100	99	87	80	92	28	5.03	131.3
Yosemite	Jan 4 83	Dec 30 83		100	90	89	85	99	33	5.47	230.1
Colorado											
NADP											
Manitou	Jan 4 83	Jan 3 84		100	93	92	91	81	42	4.97	48.8
Mesa Verde	Jan 4 83	Jan 3 84		100	94	79	77	81	36	4.88	57.4
Pawnee	Jan 4 83	Jan 3 84	2A	100	99	88	85	84	35	5.48	37.3
Rocky Mt. Nat Park	Jan 4 83	Dec 27 83		100	94	96	94	93	46	5.08	45.0
Sand Spring	Jan 4 83	Jan 3 84		100	83	90	90	96	46	5.05	42.8
UAPSP											
Yampa	Jan 1 83	Jan 1 84	1	100	97	98	94	84	117	4.92	39.8
Delaware											
MAP3s/PCN											
Lewes	Jan 1 83	Jan 1 84	2A	99	100	96	87	108	65	4.33	144.9
Florida											
NADP											
Bradford Forest	Jan 4 83	Jan 3 84	2A	98	92	82	83	94	40	4.72	158.7
Georgia											
NADP											
Georgia Station	Jan 4 83	Jan 3 84	2A	100	91	81	80	96	40	4.81	122.7
UAPSP											
Uvalda	Jan 1 83	Jan 1 84	2A	100	99	99	95	99	87	4.68	122.7
Hawaii											
NADP											
Mauna Loa	Jan 4 83	Jan 3 84		100	100	96	89	96	16	5.07	15.2
Illinois											
NADP											
Argonne	Jan 4 83	Jan 3 84	3	100	89	85	86	102	42	4.36	112.7
Bondville	Jan 4 83	Jan 3 84	2A	100	85	90	90	92	43	4.31	96.2
Dixon Springs	Jan 4 83	Jan 3 84	2B	100	100	92	91	89	43	4.48	146.6
NIARC	Jan 4 83	Jan 3 84	1	100	96	81	81	97	42	4.47	100.1
Salem	Dec 28 82	Jan 3 84	1	100	100	92	90	106	37	4.42	102.6
Southern Ill U	Jan 4 83	Jan 3 84	2B	100	100	85	84	100	43	4.53	117.0
Indiana											

pH

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	Wtd Mean	Total Precip cm
NADP											
Indiana Dunes	Jan 4 83	Jan 3 84	3	98	99	92	94	89	47	4.40	93.5
Purdue U Ag Farm	Jan 4 83	Jan 3 84	2	100	96	94	94	97	44	4.27	85.2
UAPSP											
Fort Wayne	Jan 1 83	Jan 1 84	2A	100	99	96	85	91	92	4.34	88.0
Rockport	Jan 1 83	Jan 1 84	3	100	100	100	100	92	85	4.31	124.5
Kansas											
NADP											
Konza Prairie	Jan 4 83	Jan 3 84	2	100	95	87	87	97	39	4.88	76.0
UAPSP											
Lancaster	Jan 1 83	Jan 1 84	2A	100	98	97	90	93	70	4.72	86.7
Kentucky											
UAPSP											
Morehead	Jan 1 83	Jan 1 84	2A	100	99	98	95	103	125	4.25	102.7
Louisiana											
NADP											
Iberia	Jan 4 83	Jan 3 84	2	100	88	75	79	99	37	4.84	172.9
Maine											
NADP											
Caribou (a)	Jan 4 83	Jan 3 84	2B	100	87	79	82	94	41	4.65	117.3
Greenville Station	Jan 4 83	Jan 3 84	2B	100	98	88	88	89	46	4.74	145.3
UAPSP											
Winterport	Jan 1 83	Jan 1 84	2A	100	100	99	96	93	102	4.64	157.8
Massachusetts											
NADP											
East	Jan 4 83	Jan 3 84	3	100	97	96	96	97	47	4.39	133.7
UAPSP											
Turners Falls	Jan 1 83	Jan 1 84	2A	100	100	99	97	95	93	4.37	145.6
Michigan											
NADP											
Douglas Lake	Jan 4 83	Jan 3 84	1	100	90	83	83	95	40	4.48	89.5
Kellogg	Jan 4 83	Jan 3 84	2A	99	87	81	80	84	39	4.31	94.6
Wellston	Jan 4 83	Jan 3 84	2A	100	97	94	94	88	46	4.40	97.0
UAPSP											
Gaylord	Jan 1 83	Jan 1 84	2A	100	96	97	90	91	100	4.40	90.1
Minnesota											
NADP											
Fernberg	Jan 4 83	Jan 3 84	1	100	94	88	89	84	42	5.00	88.9
Marcell	Jan 4 83	Jan 3 84	2B	100	90	79	78	92	38	4.89	70.1
Mississippi											
NADP											
Meridian	Jan 4 83	Jan 3 84	3	100	89	83	81	87	38	4.82	177.3
UAPSP											
Clinton	Jan 1 83	Jan 1 84	2A	100	100	99	98	97	110	4.63	189.0
Missouri											
NADP											
Ashland	Jan 4 83	Jan 3 84	2	100	99	90	90	94	45	4.61	103.5
University Forest	Jan 4 83	Jan 3 84	2	100	98	87	86	96	42	4.69	114.2
Montana											
NADP											

pH

State / Network / Site Name	Period Summarized First Date	Last Date	Site Rep	% PCL	% TP	% VSL	% VSNP	% Col Eff	N	Wtd Mean	Total Precip cm
Glacier Nat Park	Jan 4 83	Jan 3 84		98	95	83	85	87	40	5.25	83.2
Nebraska											
NADP											
Mead	Dec 29 82	Jan 3 84	2	100	95	87	85	99	39	5.03	66.1
New Hampshire											
NADP											
Hubbard Brook	Jan 4 83	Jan 3 84	1	100	91	90	90	95	46	4.43	130.8
New Jersey											
NADP											
Washington Xing	Jan 4 83	Jan 3 84	3	100	89	81	78	97	36	4.41	142.1
New Mexico											
NADP											
Bandelier	Jan 4 83	Jan 3 84		100	91	87	82	91	37	5.05	37.1
CUBA	Jan 4 83	Jan 3 84		100	84	88	89	88	39	4.98	34.8
New York											
NADP											
Aurora	Dec 29 82	Jan 3 84	2A	100	100	96	96	89	48	4.23	79.4
Bennett Bridge	Jan 4 83	Jan 3 84	2A	98	97	94	98	89	46	4.24	143.8
Chautauqua	Jan 4 83	Jan 3 84	2A	100	97	90	90	94	46	4.20	104.5
Huntington	Jan 4 83	Jan 3 84	2B	100	90	84	85	99	44	4.43	118.3
Jasper	Jan 4 83	Jan 3 84	2A	100	97	90	92	95	45	4.30	67.2
Knobit	Jan 4 83	Jan 3 84	2A	100	82	77	82	94	37	4.45	121.3
Stillwell Lake	Jan 4 83	Jan 3 84	2B	100	90	88	88	93	44	4.40	184.9
MAP3s/PCN											
Brookhaven	Jan 1 83	Jan 1 84	2B	99	99	97	90	105	69	4.42	152.2
Ithaca	Jan 1 83	Jan 1 84	2A	99	96	98	92	93	71	4.17	108.5
Whiteface	Jan 1 83	Jan 1 84	1	99	98	95	88	111	104	4.37	119.8
UAPSP											
Big Moose	Jan 1 83	Jan 1 84	1	100	99	97	93	95	159	4.33	143.9
North Carolina											
NADP											
Clinton Station	Jan 4 83	Jan 3 84	2A	98	97	88	89	97	41	4.60	127.2
Coweeta	Jan 4 83	Jan 3 84	2A	100	88	75	77	98	37	4.70	197.5
Finley (A)	Jan 4 83	Jan 3 84	2A	100	81	87	86	89	42	4.56	119.7
Lewiston	Jan 4 83	Jan 3 84	2A	100	94	93	91	95	42	4.43	105.1
Piedmont Station	Jan 4 83	Jan 3 84	2A	100	100	94	94	97	45	4.49	109.4
UAPSP											
Raleigh	Jan 1 83	Jan 1 84	3	100	95	99	94	87	81	4.46	126.7
Ohio											
NADP											
Caldwell	Jan 4 83	Jan 3 84	2B	100	95	92	92	100	47	4.25	103.4
Delaware	Jan 4 83	Jan 3 84	2A	100	100	96	96	100	48	4.30	87.2
Wooster	Jan 4 83	Jan 3 84	3	100	93	88	88	98	45	4.25	86.0
UAPSP											
McArthur	Jan 1 83	Jan 1 84	2A	100	100	98	94	98	122	4.26	98.4
Zanesville	Jan 1 83	Jan 1 84	3	100	100	99	98	102	120	4.23	100.7
Oklahoma											
NADP											
Clayton Lake	Jan 1 83	Jan 3 84		92	95	78	84	96	38	4.71	99.4
Oregon											

pH

State / Network / Site Name	Period Summarized First Date	Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	Wtd Mean	Total Precip cm
NADP											
Lost Creek Dam	Jan 4 83	Jan 1 84		93	90	79	85	101	34	5.41	96.7
Pennsylvania											
NADP											
Kane	Jan 4 83	Jan 3 84	2A	100	86	83	82	93	42	4.20	128.0
Leading Ridge	Jan 4 83	Jan 3 84	1	100	98	94	94	90	46	4.25	115.9
MAP3s/PCN											
Penn State	Jan 1 83	Jan 1 84	2B	99	99	93	76	109	66	4.14	105.2
UAPSP											
Scranton	Jan 1 83	Jan 1 84	2A	100	99	97	91	86	103	4.33	111.6
South Carolina											
NADP											
Clemson	Jan 4 83	Jan 3 84	3	100	95	90	90	97	44	4.52	119.7
South Dakota											
UAPSP											
Brookings	Jan 1 83	Jan 1 84	2A	100	87	98	90	99	53	5.23	58.6
Tennessee											
NADP											
Walker Branch	Jan 4 83	Jan 3 84	2A	100	97	90	90	102	43	4.48	115.3
MAP3s/PCN											
Oak Ridge	Jan 1 83	Jan 1 84	2B	99	100	99	100	108	60	4.37	115.2
UAPSP											
Alamo	Jan 1 83	Jan 1 84	2B	100	97	99	92	96	44	4.67	93.0
Texas											
NADP											
Forest Seed Ctr	Jan 4 83	Jan 3 84	2	100	80	88	85	98	39	4.84	131.8
K-Bar	Jan 4 83	Jan 3 84	2	100	98	92	88	101	29	5.55	28.6
Longview	Jan 4 83	Jan 3 84	2	100	98	87	85	99	39	4.79	111.4
UAPSP											
Marshall	Jan 1 83	Jan 1 84	2A	100	100	99	96	99	67	4.67	105.8
Vermont											
NADP											
Bennington	Jan 4 83	Jan 3 84	2A	100	96	92	94	89	47	4.43	119.1
UAPSP											
Underhill Center	Jan 1 83	Jan 1 84	2A	100	100	98	94	95	148	4.45	157.7
Virginia											
NADP											
Horton's Station	Jan 4 83	Jan 3 84	3	100	86	79	77	94	36	4.62	90.7
MAP3s/PCN											
Virginia	Jan 1 83	Jan 1 84	2A	99	91	96	84	105	51	4.29	142.7
West Virginia											
NADP											
Parsons	Jan 4 83	Jan 3 84	2A	100	99	96	96	91	49	4.29	122.9
Wisconsin											
NADP											
Lake Dubay	Jan 4 83	Jan 3 84	2	99	96	94	94	93	44	4.48	64.1
Spooner	Jan 4 83	Jan 3 84	1	100	97	87	85	86	41	4.78	91.3
Trout Lake	Jan 4 83	Jan 3 84	1	100	84	81	82	95	40	4.65	83.8
WISC											
Legend Lake	Jan 1 83	Jan 1 84		96	96	91	79	99	74	4.33	88.4

pH

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSHP	% Col Eff	N	Wtd Mean	Total Precip cm
Round Lake	Jan 1 83	Jan 1 84	1	100	98	93	81	89	102	4.51	86.6
Wyoming											
NADP											
Newcastle	Jan 4 83	Jan 3 84		100	100	92	91	87	41	5.21	34.3
American Samoa											
NADP											
American Samoa	Jan 4 83	Jan 3 84		100	98	94	94	100	48	5.52	176.0
Alberta											
CANSAP											
Fort McMurray	Jan 1 83	Jan 1 84		100	96	84	83	76	10	5.57	38.3
British Columbia											
CANSAP											
Kelowna	Dec 31 82	Jan 1 84		100	86	84	83	75	10	4.96	46.9
Port Hardy	Dec 31 82	Jan 1 84		100	100	100	100	79	12	5.08	180.4
Revelstoke	Jan 1 83	Jan 1 84		100	100	100	100	87	12	5.17	107.4
Vancouver	Dec 31 82	Jan 1 84		100	100	100	100	79	12	4.63	148.3
New Brunswick											
CANSAP											
Acadia Fes	Jan 1 83	Jan 1 84	3	100	100	100	100	92	12	4.37	120.8
Newfoundland											
CANSAP											
Stephenville	Jan 1 83	Jan 1 84	3	100	86	83	83	88	10	4.55	133.9
Nova Scotia											
CANSAP											
Kejimkujik (a)	Dec 31 82	Jan 1 84	2A	100	100	100	100	98	12	4.72	134.0
Truro	Jan 1 83	Jan 1 84	3	100	93	92	92	86	11	4.53	123.6
Ontario											
CANSAP											
Dorset (a)	Dec 31 82	Jan 3 84	1	100	100	100	100	86	12	4.19	106.5
Mount Forest (a)	Jan 3 83	Jan 3 84	3	100	100	100	100	84	12	4.53	99.0
APIOS-D											
Balsam Lake	Jan 1 83	Jan 1 84	1	100	94	93	80	82	107	4.38	94.2
Charleston Lake	Jan 1 83	Jan 1 84	2A	100	95	93	76	83	84	4.48	93.4
Dorset (b)	Jan 1 83	Jan 1 84	1	100	94	87	75	86	123	4.42	106.2
Melbourne	Jan 1 83	Jan 1 84	2A	100	90	93	76	102	80	4.30	94.7
Raven Lake	Jan 1 83	Jan 1 84	1	100	93	92	81	93	116	4.40	92.6
Wellesley	Jan 1 83	Jan 1 84	2B	100	93	93	80	88	100	4.42	106.2
APIOS-C											
Colchester	Jan 4 83	Jan 3 84	2A	100	90	85	85	84	11	4.26	85.3
Dorion	Jan 4 83	Jan 3 84	1	100	94	92	92	84	12	4.63	77.7
Dorset (c)	Jan 4 83	Jan 3 84	1	100	100	100	100	89	13	4.32	96.7
Expt. Lake Area	Jan 4 83	Jan 3 84	2A	100	83	85	79	77	11	5.09	46.6
Gowganda	Jan 4 83	Jan 3 84	2A	100	90	92	92	84	12	4.50	73.8
Huron Park	Jan 4 83	Jan 3 84	2A	100	90	85	85	80	11	4.39	79.0
Killarney	Jan 5 83	Jan 3 84	2A	100	91	92	92	78	12	4.24	92.7
Mattawa	Jan 4 83	Jan 4 84	2A	100	79	84	85	81	11	4.39	95.0
Merlin	Jan 4 83	Jan 3 84	2A	100	88	92	92	79	12	4.32	84.0
Palmerston	Jan 4 83	Jan 4 84	2A	100	94	92	92	78	12	4.57	75.8
Quetico Centre	Jan 4 83	Jan 3 84	1	99	83	85	79	78	11	4.92	88.0
Shallow Lake	Jan 4 83	Jan 3 84	2A	100	88	94	92	81	12	4.29	98.1

pH

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	Wtd Mean	Total Precip cm
Smith's Falls	Jan 4 83	Jan 3 84	3	100	81	77	77	92	10	4.55	82.8
Waterloo	Jan 4 83	Jan 3 84	2A	100	80	77	77	83	10	4.37	90.7
Wilberforce	Jan 4 83	Jan 3 84	1	100	100	100	100	80	13	4.32	97.3
Quebec											
CANSAP											
Maniwaki	Jan 1 83	Jan 1 84	2B	100	85	83	83	80	10	4.45	93.7

H+ (derived from pH)

State / Network / Site Name	Period Summarized First Date	Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	H+ Dep g/m2	Total Precip cm
Alabama													
UAPSP													
Selma	Jan 1 83	Jan 1 84	2A	100	100	100	99	96	103		2.32E-02	4.11E-02	177.0
Arizona													
NADP													
Grand Canyon	Jan 4 83	Jan 3 84		100	100	88	86	89	36		5.60E-03	2.90E-03	51.8
Organ Pipe Mon.	Jan 4 83	Jan 3 84		100	99	90	84	94	26		6.00E-03	2.82E-03	46.9
Arkansas													
NADP													
Fayetteville	Jan 4 83	Jan 3 84	2B	98	98	90	91	88	40		1.10E-02	9.92E-03	90.6
Warren 2WSW	Jan 4 83	Jan 3 84	2	100	94	88	90	99	43		1.45E-02	1.92E-02	132.5
California													
NADP													
Davis Site	Jan 4 83	Jan 3 84		100	100	98	97	98	30		1.52E-03	1.40E-03	91.8
Hopland (Ukiah)	Jan 4 83	Jan 3 84		100	100	98	97	99	34		3.51E-03	6.41E-03	182.8
Sequoia Nat. Park	Jan 4 83	Jan 3 84		98	93	84	81	101	29		3.65E-03	5.43E-03	148.6
Tanbark Flat	Jan 4 83	Jan 3 84		100	99	87	80	92	28		9.43E-03	1.24E-02	131.3
Yosemite	Jan 4 83	Dec 30 83		100	90	89	85	99	33		3.40E-03	7.83E-03	230.1
Colorado													
NADP													
Manitou	Jan 4 83	Jan 3 84		100	93	92	91	81	42		1.06E-02	5.17E-03	48.8
Mesa Verde	Jan 4 83	Jan 3 84		100	94	79	77	81	36		1.32E-02	7.57E-03	57.4
Pawnee	Jan 4 83	Jan 3 84	2A	100	99	88	85	84	35		3.29E-03	1.23E-03	37.3
Rocky Mt. Nat Park	Jan 4 83	Dec 27 83		100	94	96	94	93	46		8.37E-03	3.76E-03	45.0
Sand Spring	Jan 4 83	Jan 3 84		100	83	90	90	96	46		8.89E-03	3.80E-03	42.8
UAPSP													
Yampa	Jan 1 83	Jan 1 84	1	100	97	98	94	84	117		1.20E-02	4.78E-03	39.8
Delaware													
MAP3s/PCN													
Lewes	Jan 1 83	Jan 1 84	2A	99	100	96	87	108	65		4.68E-02	6.78E-02	144.9
Florida													
NADP													
Bradford Forest	Jan 4 83	Jan 3 84	2A	98	92	82	83	94	40		1.92E-02	3.04E-02	158.7
Georgia													
NADP													
Georgia Station	Jan 4 83	Jan 3 84	2A	100	91	81	80	96	40		1.53E-02	1.88E-02	122.7
UAPSP													
Uvalda	Jan 1 83	Jan 1 84	2A	100	99	99	95	99	87		2.08E-02	2.56E-02	122.7
Hawaii													
NADP													
Mauna Loa	Jan 4 83	Jan 3 84		100	100	96	89	96	16		8.48E-03	1.29E-03	15.2
Illinois													
NADP													
Argonne	Jan 4 83	Jan 3 84	3	100	89	85	86	102	42		4.36E-02	4.91E-02	112.7
Bondville	Jan 4 83	Jan 3 84	2A	100	85	90	90	92	43		4.95E-02	4.77E-02	96.2
Dixon Springs	Jan 4 83	Jan 3 84	2B	100	100	92	91	89	43		3.30E-02	4.84E-02	146.6
MIARC	Jan 4 83	Jan 3 84	1	100	96	81	81	97	42		3.37E-02	3.37E-02	100.1
Salem	Dec 28 82	Jan 3 84	1	100	100	92	90	106	37		3.80E-02	3.91E-02	102.6
Southern Ill U	Jan 4 83	Jan 3 84	2B	100	100	85	84	100	43		2.95E-02	3.45E-02	117.0
Indiana													

H+ (derived from pH)

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	H+ Dep g/m2	Total Precip cm
NADP													
Indiana Dunes	Jan 4 83	Jan 3 84	3	98	99	92	94	89	47		3.98E-02	3.72E-02	93.5
Purdue U Ag Farm	Jan 4 83	Jan 3 84	2	100	96	94	94	97	44		5.32E-02	4.53E-02	85.2
UAPSP													
Fort Wayne	Jan 1 83	Jan 1 84	2A	100	99	96	85	91	92		4.61E-02	4.06E-02	88.0
Rockport	Jan 1 83	Jan 1 84	3	100	100	100	100	92	85		4.93E-02	6.13E-02	124.5
Kansas													
NADP													
Konza Prairie	Jan 4 83	Jan 3 84	2	100	95	87	87	97	39		1.33E-02	1.01E-02	76.0
UAPSP													
Lancaster	Jan 1 83	Jan 1 84	2A	100	98	97	90	93	70		1.90E-02	1.65E-02	86.7
Kentucky													
UAPSP													
Morehead	Jan 1 83	Jan 1 84	2A	100	99	98	95	103	125		5.65E-02	5.80E-02	102.7
Louisiana													
NADP													
Iberia	Jan 4 83	Jan 3 84	2	100	88	75	79	99	37		1.45E-02	2.51E-02	172.9
Maine													
NADP													
Caribou (a)	Jan 4 83	Jan 3 84	2B	100	87	79	82	94	41		2.26E-02	2.65E-02	117.3
Greenville Station	Jan 4 83	Jan 3 84	2B	100	98	88	88	89	46		1.81E-02	2.64E-02	145.3
UAPSP													
Winterport	Jan 1 83	Jan 1 84	2A	100	100	99	96	93	102		2.30E-02	3.62E-02	157.8
Massachusetts													
NADP													
East	Jan 4 83	Jan 3 84	3	100	97	96	96	97	47		4.03E-02	5.38E-02	133.7
UAPSP													
Turners Falls	Jan 1 83	Jan 1 84	2A	100	100	99	97	95	93		4.29E-02	6.24E-02	145.6
Michigan													
NADP													
Douglas Lake	Jan 4 83	Jan 3 84	1	100	90	83	83	95	40		3.34E-02	2.99E-02	89.5
Kellogg	Jan 4 83	Jan 3 84	2A	99	87	81	80	84	39		4.92E-02	4.66E-02	94.6
Wellston	Jan 4 83	Jan 3 84	2A	100	97	94	94	88	46		4.00E-02	3.88E-02	97.0
UAPSP													
Gaylord	Jan 1 83	Jan 1 84	2A	100	96	97	90	91	100		3.96E-02	3.56E-02	90.1
Minnesota													
NADP													
Fernberg	Jan 4 83	Jan 3 84	1	100	94	88	89	84	42		1.00E-02	8.90E-03	88.9
Marcell	Jan 4 83	Jan 3 84	2B	100	90	79	78	92	38		1.30E-02	9.11E-03	70.1
Mississippi													
NADP													
Meridian	Jan 4 83	Jan 3 84	3	100	89	83	81	87	38		1.50E-02	2.67E-02	177.3
UAPSP													
Clinton	Jan 1 83	Jan 1 84	2A	100	100	99	98	97	110		2.35E-02	4.43E-02	189.0
Missouri													
NADP													
Ashland	Jan 4 83	Jan 3 84	2	100	99	90	90	94	45		2.47E-02	2.56E-02	103.5
University Forest	Jan 4 83	Jan 3 84	2	100	98	87	86	96	42		2.05E-02	2.34E-02	114.2
Montana													
NADP													

H+ (derived from pH)

State / Network / Site Name	Period Summarized First Date	Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	H+ Dep g/m2	Total Precip cm
Glacier Nat Park	Jan 4 83	Jan 3 84		98	95	83	85	87	40		5.64E-03	4.70E-03	83.2
Nebraska													
NADP													
Mead	Dec 29 82	Jan 3 84	2	100	95	87	85	99	39		9.41E-03	6.22E-03	66.1
New Hampshire													
NADP													
Hubbard Brook	Jan 4 83	Jan 3 84	1	100	91	90	90	95	46		3.68E-02	4.81E-02	130.8
New Jersey													
NADP													
Washington Xing	Jan 4 83	Jan 3 84	3	100	89	81	78	97	36		3.89E-02	5.53E-02	142.1
New Mexico													
NADP													
Bandelier	Jan 4 83	Jan 3 84		100	91	87	82	91	37		8.94E-03	3.31E-03	37.1
CUBA	Jan 4 83	Jan 3 84		100	84	88	89	88	39		1.04E-02	3.60E-03	34.8
New York													
NADP													
Aurora	Dec 29 82	Jan 3 84	2A	100	100	96	96	89	48		5.90E-02	4.68E-02	79.4
Bennett Bridge	Jan 4 83	Jan 3 84	2A	98	97	94	98	89	46		5.72E-02	8.22E-02	143.8
Chautauqua	Jan 4 83	Jan 3 84	2A	100	97	90	90	94	46		6.26E-02	6.54E-02	104.5
Huntington	Jan 4 83	Jan 3 84	2B	100	90	84	85	99	44		3.68E-02	4.35E-02	118.3
Jasper	Jan 4 83	Jan 3 84	2A	100	97	90	92	95	45		4.96E-02	3.33E-02	67.2
Knobit	Jan 4 83	Jan 3 84	2A	100	82	77	82	94	37		3.53E-02	4.28E-02	121.3
Stilwell Lake	Jan 4 83	Jan 3 84	2B	100	90	88	88	93	44		4.02E-02	7.43E-02	184.9
MAP3s/PCN													
Brookhaven	Jan 1 83	Jan 1 84	2B	99	99	97	90	105	69		3.82E-02	5.81E-02	152.2
Ithaca	Jan 1 83	Jan 1 84	2A	99	96	98	92	93	71		6.80E-02	7.37E-02	108.5
Whiteface	Jan 1 83	Jan 1 84	1	99	98	95	88	111	104		4.29E-02	5.14E-02	119.8
UAPSP													
Big Moose	Jan 1 83	Jan 1 84	1	100	99	97	93	95	159		4.72E-02	6.79E-02	143.9
North Carolina													
NADP													
Clinton Station	Jan 4 83	Jan 3 84	2A	98	97	88	89	97	41		2.49E-02	3.17E-02	127.2
Coweeta	Jan 4 83	Jan 3 84	2A	100	88	75	77	98	37		2.00E-02	3.96E-02	197.5
Finley (A)	Jan 4 83	Jan 3 84	2A	100	81	87	86	89	42		2.76E-02	3.31E-02	119.7
Lewiston	Jan 4 83	Jan 3 84	2A	100	94	93	91	95	42		3.69E-02	3.88E-02	105.1
Piedmont Station	Jan 4 83	Jan 3 84	2A	100	100	94	94	97	45		3.23E-02	3.54E-02	109.4
UAPSP													
Raleigh	Jan 1 83	Jan 1 84	3	100	95	99	94	87	81		3.50E-02	4.43E-02	126.7
Ohio													
NADP													
Caldwell	Jan 4 83	Jan 3 84	2B	100	95	92	92	100	47		5.68E-02	5.87E-02	103.4
Delaware	Jan 4 83	Jan 3 84	2A	100	100	96	96	100	48		4.96E-02	4.33E-02	87.2
Wooster	Jan 4 83	Jan 3 84	3	100	93	88	88	98	45		5.59E-02	4.81E-02	86.0
UAPSP													
McArthur	Jan 1 83	Jan 1 84	2A	100	100	98	94	98	122		5.51E-02	5.42E-02	98.4
Zanesville	Jan 1 83	Jan 1 84	3	100	100	99	98	102	120		5.94E-02	5.99E-02	100.7
Oklahoma													
NADP													
Clayton Lake	Jan 1 83	Jan 3 84		92	95	78	84	96	38		1.96E-02	1.95E-02	99.4
Oregon													

H+ (derived from pH)

State / Network / Site Name	Period Summarized First Date	Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	H+ Dep g/m2	Total Precip cm
NADP													
Lost Creek Dam	Jan 4 83	Jan 1 84		93	90	79	85	101	34		3.87E-03	3.74E-03	96.7
Pennsylvania													
NADP													
Kane	Jan 4 83	Jan 3 84	2A	100	86	83	82	93	42		6.36E-02	8.14E-02	128.0
Leading Ridge	Jan 4 83	Jan 3 84	1	100	98	94	94	90	46		5.58E-02	6.47E-02	115.9
MAP3s/PCN													
Penn State	Jan 1 83	Jan 1 84	2B	99	99	93	76	109	66		7.30E-02	7.69E-02	105.2
UAPSP													
Scranton	Jan 1 83	Jan 1 84	2A	100	99	97	91	86	103		4.68E-02	5.22E-02	111.6
South Carolina													
NADP													
Clemson	Jan 4 83	Jan 3 84	3	100	95	90	90	97	44		3.00E-02	3.59E-02	119.7
South Dakota													
UAPSP													
Brookings	Jan 1 83	Jan 1 84	2A	100	87	98	90	99	53		5.82E-03	3.41E-03	58.6
Tennessee													
NADP													
Walker Branch	Jan 4 83	Jan 3 84	2A	100	97	90	90	102	43		3.35E-02	3.8[illegible]	115.3
MAP3s/PCN													
Oak Ridge	Jan 1 83	Jan 1 84	2B	99	100	99	100	108	60		4.31E-02	4.9[illegible]	115.2
UAPSP													
Alamo	Jan 1 83	Jan 1 84	2B	100	97	99	92	96	44		2.12E-02	1.97E-02	93.0
Texas													
NADP													
Forest Seed Ctr	Jan 4 83	Jan 3 84	2	100	80	88	85	98	39		1.44E-02	1.90E-02	131.8
K-Bar	Jan 4 83	Jan 3 84	2	100	98	92	88	101	29		2.82E-03	8.05E-04	28.6
Longview	Jan 4 83	Jan 3 84	2	100	98	87	85	99	39		1.61E-02	1.79E-02	111.4
UAPSP													
Marshall	Jan 1 83	Jan 1 84	2A	100	100	99	96	99	67		2.13E-02	2.25E-02	105.8
Vermont													
NADP													
Bennington	Jan 4 83	Jan 3 84	2A	100	96	92	94	89	47		3.71E-02	4.42E-02	119.1
UAPSP													
Underhill Center	Jan 1 83	Jan 1 84	2A	100	100	98	94	95	148		3.59E-02	5.66E-02	157.7
Virginia													
NADP													
Horton's Station	Jan 4 83	Jan 3 84	3	100	86	79	77	94	36		2.41E-02	2.19E-02	90.7
MAP3s/PCN													
Virginia	Jan 1 83	Jan 1 84	2A	99	91	96	84	105	51		5.16E-02	7.37E-02	142.7
West Virginia													
NADP													
Parsons	Jan 4 83	Jan 3 84	2A	100	99	96	96	91	49		5.10E-02	6.26E-02	122.9
Wisconsin													
NADP													
Lake Dubay	Jan 4 83	Jan 3 84	2	99	96	94	94	93	44		3.28E-02	2.11E-02	64.1
Spooner	Jan 4 83	Jan 3 84	1	100	97	87	85	86	41		1.67E-02	1.52E-02	91.3
Trout Lake	Jan 4 83	Jan 3 84	1	100	84	81	82	95	40		2.23E-02	1.87E-02	83.8
WISC													
Legend Lake	Jan 1 83	Jan 1 84		96	96	91	79	99	74		4.70E-02	4.15E-02	88.4

H+ (derived from pH)

State / Network / Site Name	Period Summarized First Date	Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	H+ Dep g/m2	Total Precip cm
Round Lake	Jan 1 83	Jan 1 84	1	100	98	93	81	89	102		3.07E-02	2.66E-02	86.6
Wyoming													
NADP													
Newcastle	Jan 4 83	Jan 3 84		100	100	92	91	87	41		6.23E-03	2.14E-03	34.3
American Samoa													
NADP													
American Samoa	Jan 4 83	Jan 3 84		100	98	94	94	100	48		3.02E-03	5.32E-03	176.0
Alberta													
CANSAP													
Fort McMurray	Jan 1 83	Jan 1 84		100	96	84	83	76	10		2.70E-03	1.03E-03	38.3
British Columbia													
CANSAP													
Kelowna	Dec 31 82	Jan 1 84		100	86	84	83	75	10		1.10E-02	5.14E-03	46.9
Port Hardy	Dec 31 82	Jan 1 84		100	100	100	100	79	12		8.28E-03	1.49E-02	180.4
Revelstoke	Jan 1 83	Jan 1 84		100	100	100	100	87	12		6.73E-03	7.23E-03	107.4
Vancouver	Dec 31 82	Jan 1 84		100	100	100	100	79	12		2.36E-02	3.50E-02	148.3
New Brunswick													
CANSAP													
Acadia Fes	Jan 1 83	Jan 1 84	3	100	100	100	100	92	12		4.28E-02	5.17E-02	120.8
Newfoundland													
CANSAP													
Stephenville	Jan 1 83	Jan 1 84	3	100	86	83	83	88	10		2.80E-02	3.75E-02	133.9
Nova Scotia													
CANSAP													
Kejimkujik (a)	Dec 31 82	Jan 1 84	2A	100	100	100	100	98	12		1.91E-02	2.56E-02	134.0
Truro	Jan 1 83	Jan 1 84	3	100	93	92	92	86	11		2.93E-02	3.63E-02	123.6
Ontario													
CANSAP													
Dorset (a)	Dec 31 82	Jan 3 84	1	100	100	100	100	86	12		6.50E-02	6.92E-02	106.5
Mount Forest (a)	Jan 3 83	Jan 3 84	3	100	100	100	100	84	12		2.93E-02	2.90E-02	99.0
APIOS-D													
Balsam Lake	Jan 1 83	Jan 1 84	1	100	94	93	80	82	107		4.18E-02	3.93E-02	94.2
Charleston Lake	Jan 1 83	Jan 1 84	2A	100	95	93	76	83	84		3.30E-02	3.08E-02	93.4
Dorset (b)	Jan 1 83	Jan 1 84	1	100	94	87	75	86	123		3.84E-02	4.07E-02	106.2
Melbourne	Jan 1 83	Jan 1 84	2A	100	90	93	76	102	80		5.03E-02	4.76E-02	94.7
Raven Lake	Jan 1 83	Jan 1 84	1	100	93	92	81	93	116		4.01E-02	3.72E-02	92.6
Wellesley	Jan 1 83	Jan 1 84	2B	100	93	93	80	88	100		3.83E-02	4.06E-02	106.2
APIOS-C													
Colchester	Jan 4 83	Jan 3 84	2A	100	90	85	85	84	11		5.52E-02	4.70E-02	85.3
Dorion	Jan 4 83	Jan 3 84	1	100	94	92	92	84	12		2.36E-02	1.83E-02	77.7
Dorset (c)	Jan 4 83	Jan 3 84	1	100	100	100	100	89	13		4.74E-02	4.58E-02	96.7
Expt. Lake Area	Jan 4 83	Jan 3 84	2A	100	83	85	79	77	11		8.19E-03	3.82E-03	46.6
Gowganda	Jan 4 83	Jan 3 84	2A	100	90	92	92	84	12		3.18E-02	2.35E-02	73.8
Huron Park	Jan 4 83	Jan 3 84	2A	100	90	85	85	80	11		4.10E-02	3.24E-02	79.0
Killarney	Jan 5 83	Jan 3 84	2A	100	91	92	92	78	12		5.80E-02	5.38E-02	92.7
Mattawa	Jan 4 83	Jan 4 84	2A	100	79	84	85	81	11		4.08E-02	3.88E-02	95.0
Merlin	Jan 4 83	Jan 3 84	2A	100	88	92	92	79	12		4.79E-02	4.02E-02	84.0
Palmerston	Jan 4 83	Jan 4 84	2A	100	94	92	92	78	12		2.68E-02	2.03E-02	75.8
Quetico Centre	Jan 4 83	Jan 3 84	1	99	83	85	79	78	11		1.20E-02	1.06E-02	88.0
Shallow Lake	Jan 4 83	Jan 3 84	2A	100	88	94	92	81	12		5.09E-02	5.00E-02	98.1

H+ (derived from pH)

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	H+ Dep g/m2	Total Precip cm
Smith's Falls	Jan 4 83	Jan 3 84	3	100	81	77	77	92	10		2.79E-02	2.31E-02	82.8
Waterloo	Jan 4 83	Jan 3 84	2A	100	80	77	77	83	10		4.31E-02	3.91E-02	90.7
Wilberforce	Jan 4 83	Jan 3 84	1	100	100	100	100	80	13		4.83E-02	4.70E-02	97.3
Quebec													
CANSAP													
Maniwaki	Jan 1 83	Jan 1 84	2B	100	85	83	83	80	10		3.57E-02	3.34E-02	93.7

Sulfate

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	SO4 Dep g/m2	Total Precip cm
Alabama													
UAPSP													
Selma	Jan 1 83	Jan 1 84	2A	100	100	99	98	96	102		1.13	2.00	177.0
Arizona													
NADP													
Grand Canyon	Jan 4 83	Jan 3 84		100	100	88	86	89	36	1	.70	.36	51.8
Organ Pipe Mon.	Jan 4 83	Jan 3 84		100	99	90	84	94	26	2	.64	.30	46.9
Arkansas													
NADP													
Fayetteville	Jan 4 83	Jan 3 84	2B	98	98	90	91	88	40		1.54	1.40	90.6
Warren 2WSW	Jan 4 83	Jan 3 84	2	100	94	87	88	99	42		1.18	1.57	132.5
California													
NADP													
Davis Site	Jan 4 83	Jan 3 84		100	100	92	87	98	27		.54	.50	91.8
Hopland (Ukiah)	Jan 4 83	Jan 3 84		100	100	98	97	99	34	5	.32	.59	182.8
Sequoia Nat. Park	Jan 4 83	Jan 3 84		98	93	83	78	101	28	5	.34	.50	148.6
Tanbark Flat	Jan 4 83	Jan 3 84		100	99	85	77	92	27	1	.56	.73	131.3
Yosemite	Jan 4 83	Dec 30 83		100	90	89	85	99	33	8	.27	.62	230.1
Colorado													
NADP													
Manitou	Jan 4 83	Jan 3 84		100	93	85	83	81	38		.91	.45	48.8
Mesa Verde	Jan 4 83	Jan 3 84		100	94	79	77	81	36		.97	.55	57.4
Pawnee	Jan 4 83	Jan 3 84	2A	100	97	87	83	85	34	1	1.14	.43	37.3
Rocky Mt. Nat Park	Jan 4 83	Dec 27 83		100	94	96	94	93	46	1	.83	.37	45.0
Sand Spring	Jan 4 83	Jan 3 84		100	83	87	86	96	44		1.02	.44	42.8
UAPSP													
Yampa	Jan 1 83	Jan 1 84	1	100	95	95	89	85	110	1	.79	.32	39.8
Delaware													
MAP3s/PCN													
Lewes	Jan 1 83	Jan 1 84	2A	99	100	96	87	108	65		2.36	3.42	144.9
Florida													
NADP													
Bradford Forest	Jan 4 83	Jan 3 84	2A	98	92	82	83	94	40		1.15	1.83	158.7
Georgia													
NADP													
Georgia Station	Jan 4 83	Jan 3 84	2A	100	91	81	80	96	40		1.29	1.59	122.7
UAPSP													
Uvalda	Jan 1 83	Jan 1 84	2A	100	99	99	95	99	87		.95	1.16	122.7
Hawaii													
NADP													
Mauna Loa	Jan 4 83	Jan 3 84		100	100	94	83	96	15	4	.53	.08	15.2
Illinois													
NADP													
Argonne	Jan 4 83	Jan 3 84	3	100	89	83	84	102	41		2.92	3.29	112.7
Dixon Springs	Jan 4 83	Jan 3 84	2B	100	100	87	85	89	40		2.10	3.09	146.6
NIARC	Jan 4 83	Jan 3 84	1	100	96	77	77	97	40		2.48	2.48	100.1
Salem	Dec 28 82	Jan 3 84	1	100	100	91	88	106	36		2.04	2.09	102.6
Southern Ill U	Jan 4 83	Jan 3 84	2B	100	100	83	82	100	42		1.99	2.33	117.0
Indiana													
NADP													

Sulfate

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSNP	% Col Eff	N	N BDL	Wtd Mean mg/l	SO4 Dep g/m2	Total Precip cm
Indiana Dunes	Jan 4 83	Jan 3 84	3	98	99	90	92	89	46		2.98	2.78	93.5
Purdue U Ag Farm	Jan 4 83	Jan 3 84	2	100	96	92	91	97	43		2.60	2.21	85.2
UAPSP													
Fort Wayne	Jan 1 83	Jan 1 84	2A	100	99	95	85	91	92		2.40	2.11	88.0
Rockport	Jan 1 83	Jan 1 84	3	100	100	100	99	92	84		2.41	3.00	124.5
Kansas													
NADP													
Konza Prairie	Jan 4 83	Jan 3 84	2	100	95	87	87	97	39	1	1.52	1.15	76.0
UAPSP													
Lancaster	Jan 1 83	Jan 1 84	2A	100	98	97	90	93	70		1.50	1.30	86.7
Kentucky													
UAPSP													
Morehead	Jan 1 83	Jan 1 84	2A	100	99	97	92	103	121		2.89	2.97	102.7
Maine													
NADP													
Greenville Station	Jan 4 83	Jan 3 84	2B	100	98	87	87	89	45	3	.99	1.43	145.3
UAPSP													
Winterport	Jan 1 83	Jan 1 84	2A	100	100	98	94	93	100		1.02	1.60	157.8
Massachusetts													
NADP													
East	Jan 4 83	Jan 3 84	3	100	97	94	94	97	46		1.86	2.48	133.7
UAPSP													
Turners Falls	Jan 1 83	Jan 1 84	2A	100	100	99	97	95	93		1.74	2.54	145.6
Michigan													
NADP													
Douglas Lake	Jan 4 83	Jan 3 84	1	100	90	81	81	95	39		1.90	1.70	89.5
Kellogg	Jan 4 83	Jan 3 84	2A	99	87	79	78	84	38		2.81	2.66	94.6
Wellston	Jan 4 83	Jan 3 84	2A	100	97	94	94	88	46		2.27	2.20	97.0
UAPSP													
Gaylord	Jan 1 83	Jan 1 84	2A	100	95	96	87	91	97		2.02	1.82	90.1
Minnesota													
NADP													
Fernberg	Jan 4 83	Jan 3 84	1	100	94	87	87	84	41	1	.95	.84	88.9
Marcell	Jan 4 83	Jan 3 84	2B	100	90	77	76	92	37		1.35	.95	70.1
Mississippi													
NADP													
Meridian	Jan 4 83	Jan 3 84	3	100	89	83	81	87	38		1.24	2.21	177.3
UAPSP													
Clinton	Jan 1 83	Jan 1 84	2A	100	100	99	97	97	109		1.28	2.43	189.0
Missouri													
NADP													
Ashland	Jan 4 83	Jan 3 84	2	100	99	90	90	94	45	1	2.07	2.14	103.5
University Forest	Jan 4 83	Jan 3 84	2	100	98	85	84	96	41		1.61	1.84	114.2
Montana													
NADP													
Glacier Nat Park	Jan 4 83	Jan 3 84		98	95	85	87	86	41	5	.49	.41	83.2
Nebraska													
NADP													
Mead	Dec 29 82	Jan 3 84	2	100	95	81	78	99	36		1.74	1.15	66.1
New Hampshire													

Sulfate

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	SO4 Dep g/m2	Total Precip cm
NADP													
Hubbard Brook	Jan 4 83	Jan 3 84	1	100	91	88	88	95	45	2	1.64	2.15	130.8
New Mexico													
NADP													
Bandelier	Jan 4 83	Jan 3 84		100	91	85	80	91	36	1	1.05	.39	37.1
CUBA	Jan 4 83	Jan 3 84		100	84	83	82	88	36		1.08	.38	34.8
New York													
NADP													
Aurora	Dec 29 82	Jan 3 84	2A	100	100	96	96	89	48		2.95	2.34	79.4
Bennett Bridge	Jan 4 83	Jan 3 84	2A	98	97	94	98	89	46		2.59	3.73	143.8
Chautauqua	Jan 4 83	Jan 3 84	2A	100	97	87	86	94	44		3.02	3.15	104.5
Huntington	Jan 4 83	Jan 3 84	2B	100	90	84	85	99	44		1.89	2.24	118.3
Jasper	Jan 4 83	Jan 3 84	2A	100	97	90	92	95	45		2.37	1.59	67.2
Knobit	Jan 4 83	Jan 3 84	2A	100	82	77	82	94	37		1.60	1.94	121.3
Stilwell Lake	Jan 4 83	Jan 3 84	2B	100	90	87	86	93	43		1.83	3.39	184.9
MAP3s/PCN													
Brookhaven	Jan 1 83	Jan 1 84	2B	99	98	97	88	105	60		1.65	2.51	152.2
Ithaca	Jan 1 83	Jan 1 84	2A	99	96	98	92	93	71		2.86	3.10	108.5
Whiteface	Jan 1 83	Jan 1 84	1	99	98	96	89	111	105		1.86	2.23	119.8
UAPSP													
Big Moose	Jan 1 83	Jan 1 84	1	100	99	96	91	95	156		2.01	2.90	143.9
North Carolina													
NADP													
Clinton Station	Jan 4 83	Jan 3 84	2A	98	97	87	87	97	40		1.56	1.99	127.2
Finley (A)	Jan 4 83	Jan 3 84	2A	100	81	87	86	89	42		1.82	2.18	119.7
Lewiston	Jan 4 83	Jan 3 84	2A	100	94	93	91	95	42		2.09	2.20	105.1
Piedmont Station	Jan 4 83	Jan 3 84	2A	100	100	92	92	97	44		1.89	2.07	109.4
UAPSP													
Raleigh	Jan 1 83	Jan 1 84	3	100	95	98	93	87	80		1.64	2.07	126.7
Ohio													
NADP													
Caldwell	Jan 4 83	Jan 3 84	2B	100	95	92	92	100	47		3.02	3.13	103.4
Delaware	Jan 4 83	Jan 3 84	2A	100	100	96	96	100	48		2.71	2.36	87.2
Wooster	Jan 4 83	Jan 3 84	3	100	93	87	86	98	44		3.05	2.62	86.0
UAPSP													
McArthur	Jan 1 83	Jan 1 84	2A	100	99	97	93	98	121		2.31	2.27	98.4
Zanesville	Jan 1 83	Jan 1 84	3	100	100	99	96	102	118		2.64	2.66	100.7
Oklahoma													
NADP													
Clayton Lake	Jan 1 83	Jan 3 84		92	95	78	84	96	38		1.85	1.83	99.4
Oregon													
NADP													
Lost Creek Dam	Jan 4 83	Jan 1 84		93	90	79	85	101	34	12	.20	.20	96.7
Pennsylvania													
NADP													
Kane	Jan 4 83	Jan 3 84	2A	100	86	83	82	93	42		3.03	3.88	128.0
Leading Ridge	Jan 4 83	Jan 3 84	1	100	98	94	94	90	46		2.61	3.02	115.9
MAP3s/PCN													
Penn State	Jan 1 83	Jan 1 84	2B	99	99	93	76	109	66		2.87	3.02	105.2
UAPSP													

Sulfate

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	SO4 Dep g/m2	Total Precip cm
Scranton	Jan 1 83	Jan 1 84	2A	100	99	97	90	86	102		1.85	2.07	111.6
South Carolina													
NADP													
Clemson	Jan 4 83	Jan 3 84	3	100	95	88	88	97	43		1.64	1.97	119.7
South Dakota													
UAPSP													
Brookings	Jan 1 83	Jan 1 84	2A	100	87	98	88	99	52	1	1.13	.66	58.6
Tennessee													
NADP													
Walker Branch	Jan 4 83	Jan 3 84	2A	100	97	90	90	102	43		2.06	2.38	115.3
MAP3s/PCN													
Oak Ridge	Jan 1 83	Jan 1 84	2B	99	100	99	100	108	60		2.12	2.44	115.2
UAPSP													
Alamo	Jan 1 83	Jan 1 84	2B	100	97	99	92	96	44		1.13	1.05	93.0
Texas													
NADP													
Forest Seed Ctr	Jan 4 83	Jan 3 84	2	100	80	88	85	98	39		1.19	1.56	131.8
K-Bar	Jan 4 83	Jan 3 84	2	100	98	92	88	101	29		1.23	.35	28.6
Longview	Jan 4 83	Jan 3 84	2	100	98	83	80	99	37		1.34	1.49	111.4
UAPSP													
Marshall	Jan 1 83	Jan 1 84	2A	100	100	99	93	99	65		1.26	1.33	105.8
Vermont													
NADP													
Bennington	Jan 4 83	Jan 3 84	2A	100	96	92	94	89	47	1	1.92	2.29	119.1
UAPSP													
Underhill Center	Jan 1 83	Jan 1 84	2A	100	100	97	92	95	145		1.47	2.32	157.7
Virginia													
MAP3s/PCN													
Virginia	Jan 1 83	Jan 1 84	2A	99	91	96	84	105	51		2.22	3.17	142.7
West Virginia													
NADP													
Parsons	Jan 4 83	Jan 3 84	2A	100	99	96	96	91	49		2.52	3.10	122.9
Wisconsin													
NADP													
Lake Dubay	Jan 4 83	Jan 3 84	2	99	96	90	89	93	42	1	2.52	1.61	64.1
Spooner	Jan 4 83	Jan 3 84	1	100	97	87	85	86	41	1	1.57	1.43	91.3
Trout Lake	Jan 4 83	Jan 3 84	1	100	84	81	82	95	40		1.57	1.31	83.8
WISC													
Legend Lake	Jan 1 83	Jan 1 84		96	95	91	78	100	73		2.59	2.29	88.4
Round Lake	Jan 1 83	Jan 1 84	1	100	98	93	81	89	102		1.49	1.29	86.6
Wyoming													
NADP													
Newcastle	Jan 4 83	Jan 3 84		100	100	92	91	87	41	4	1.11	.38	34.3
American Samoa													
NADP													
American Samoa	Jan 4 83	Jan 3 84		100	98	94	94	100	48		.80	1.41	176.0
Alberta													
CANSAP													
Fort McMurray	Jan 1 83	Jan 1 84		100	96	84	83	76	10		1.86	.71	38.3
British Columbia													

Sulfate

State / Network / Site Name	Period Summarized First Date	Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	SO4 Dep g/m2	Total Precip cm
CANSAP													
Kelowna	Dec 31 82	Jan 1 84		100	86	84	83	75	10		.64	.30	46.9
Port Hardy	Dec 31 82	Jan 1 84		100	100	100	100	79	12		.88	1.59	180.4
Revelstoke	Jan 1 83	Jan 1 84		100	100	100	100	87	12		.54	.58	107.4
Vancouver	Dec 31 82	Jan 1 84		100	100	100	100	79	12		1.50	2.23	148.3
New Brunswick													
CANSAP													
Acadia Fes	Jan 1 83	Jan 1 84	3	100	100	100	100	92	12		1.88	2.27	120.8
Newfoundland													
CANSAP													
Stephenville	Jan 1 83	Jan 1 84	3	100	86	83	83	88	10		1.67	2.24	133.9
Nova Scotia													
CANSAP													
Kejimkujik (a)	Dec 31 82	Jan 1 84	2A	100	100	100	100	98	12		.93	1.25	134.0
Truro	Jan 1 83	Jan 1 84	3	100	93	92	92	86	11		1.88	2.33	123.6
Ontario													
CANSAP													
Dorset (a)	Dec 31 82	Jan 3 84	1	100	96	93	92	86	11		2.62	2.79	106.5
Mount Forest (a)	Jan 3 83	Jan 3 84	3	100	100	100	100	84	12		4.13	4.09	99.0
APIOS-D													
Balsam Lake	Jan 1 83	Jan 1 84	1	100	95	93	81	81	109		2.14	2.01	94.2
Charleston Lake	Jan 1 83	Jan 1 84	2A	100	92	93	76	83	84		1.74	1.62	93.4
Lac Le Croix (b)	Jan 1 83	Jan 1 84	2A	100	95	94	78	83	49	1	.84	.48	56.9
Longwoods (b)	Jan 1 83	Jan 1 84	2B	100	95	92	76	93	89		3.03	2.82	93.0
Melbourne	Jan 1 83	Jan 1 84	2A	100	95	95	82	101	86		3.11	2.94	94.7
North Easthope	Jan 1 83	Jan 1 84	2A	100	92	91	76	93	99		2.55	2.74	107.2
Raven Lake	Jan 1 83	Jan 1 84	1	100	95	95	86	93	124		2.34	2.17	92.6
Wellesley	Jan 1 83	Jan 1 84	2B	100	93	95	85	90	106		2.35	2.49	106.2
APIOS-C													
Colchester	Jan 4 83	Jan 3 84	2A	100	90	85	85	84	11		4.12	3.51	85.3
Coldwater	Jan 4 83	Jan 3 84	1	100	100	100	100	91	13		2.74	2.29	83.6
Dorion	Jan 4 83	Jan 3 84	1	100	100	100	100	84	13		1.47	1.14	77.7
Dorset (c)	Jan 4 83	Jan 3 84	1	100	100	100	100	89	13		2.46	2.37	96.7
Expt. Lake Area	Jan 4 83	Jan 3 84	2A	100	87	92	86	75	12		1.04	.49	46.6
Gowganda	Jan 4 83	Jan 3 84	2A	100	90	92	92	84	12		1.73	1.28	73.8
Huron Park	Jan 4 83	Jan 3 84	2A	100	93	92	92	80	12		4.46	3.53	79.0
Killarney	Jan 5 83	Jan 3 84	2A	100	91	92	92	78	12		3.15	2.92	92.7
Mattawa	Jan 4 83	Jan 4 84	2A	100	96	92	92	81	12		2.64	2.51	95.0
Merlin	Jan 4 83	Jan 3 84	2A	100	88	92	92	79	12		4.39	3.69	84.0
Palmerston	Jan 4 83	Jan 4 84	2A	100	100	100	100	78	13		3.43	2.60	75.8
Port Stanley	Jan 4 83	Jan 3 84	2B	100	96	92	92	75	12		4.29	4.05	94.4
Quetico Centre	Jan 4 83	Jan 3 84	1	99	83	85	79	78	11		1.27	1.12	88.0
Shallow Lake	Jan 4 83	Jan 3 84	2A	100	88	94	92	81	12		3.23	3.17	98.1
Smith's Falls	Jan 4 83	Jan 3 84	3	100	89	85	85	85	11		2.34	1.94	82.8
Waterloo	Jan 4 83	Jan 3 84	2A	100	94	92	92	81	12		3.48	3.16	90.7
Wilberforce	Jan 4 83	Jan 3 84	1	100	100	100	100	80	13		2.72	2.65	97.3
Quebec													
CANSAP													
Maniwaki	Jan 1 83	Jan 1 84	2B	100	85	83	83	80	10		2.40	2.25	93.7

Nitrate

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	NO3 Dep g/m2	Total Precip cm
Alabama													
UAPSP													
Selma	Jan 1 83	Jan 1 84	2A	100	100	99	98	96	102		.59	1.04	177.0
Arizona													
NADP													
Grand Canyon	Jan 4 83	Jan 3 84		100	100	88	86	89	36		.68	.35	51.8
Organ Pipe Mon.	Jan 4 83	Jan 3 84		100	99	90	84	94	26	2	.52	.25	46.9
Arkansas													
NADP													
Fayetteville	Jan 4 83	Jan 3 84	2B	98	98	90	91	88	40		1.02	.92	90.6
Warren 2WSW	Jan 4 83	Jan 3 84	2	100	94	87	88	99	42		.79	1.05	132.5
California													
NADP													
Davis Site	Jan 4 83	Jan 3 84		100	100	92	87	98	27		.64	.58	91.8
Hopland (Ukiah)	Jan 4 83	Jan 3 84		100	100	98	97	99	34	4	.26	.47	182.8
Sequoia Nat. Park	Jan 4 83	Jan 3 84		98	93	83	78	101	28	1	.38	.56	148.6
Tanbark Flat	Jan 4 83	Jan 3 84		100	99	85	77	92	27		.82	1.08	131.3
Yosemite	Jan 4 83	Dec 30 83		100	90	89	85	99	33	1	.31	.71	230.1
Colorado													
NADP													
Manitou	Jan 4 83	Jan 3 84		100	93	85	83	81	38		1.07	.52	48.8
Mesa Verde	Jan 4 83	Jan 3 84		100	94	79	77	81	36		.70	.40	57.4
Pawnee	Jan 4 83	Jan 3 84	2A	100	97	87	83	85	34		1.17	.44	37.3
Rocky Mt. Nat Park	Jan 4 83	Dec 27 83		100	94	96	94	93	46		.89	.40	45.0
Sand Spring	Jan 4 83	Jan 3 84		100	83	87	86	96	44		.91	.39	42.8
UAPSP													
Yampa	Jan 1 83	Jan 1 84	1	100	95	95	89	85	110		.77	.31	39.8
Delaware													
NAP3s/PCN													
Lewes	Jan 1 83	Jan 1 84	2A	99	100	96	87	108	65		1.09	1.58	144.9
Florida													
NADP													
Bradford Forest	Jan 4 83	Jan 3 84	2A	98	92	82	83	94	40	1	.65	1.03	158.7
Georgia													
NADP													
Georgia Station	Jan 4 83	Jan 3 84	2A	100	91	81	80	96	40		.72	.89	122.7
UAPSP													
Uvalda	Jan 1 83	Jan 1 84	2A	100	99	99	95	99	87		.53	.65	122.7
Hawaii													
NADP													
Mauna Loa	Jan 4 83	Jan 3 84		100	100	94	83	96	15	6	.04	.01	15.2
Illinois													
NADP													
Argonne	Jan 4 83	Jan 3 84	3	100	89	83	84	102	41		1.93	2.18	112.7
Dixon Springs	Jan 4 83	Jan 3 84	2B	100	100	87	85	89	40		1.02	1.50	146.6
NIARC	Jan 4 83	Jan 3 84	1	100	96	77	77	97	40		1.37	1.38	100.1
Salem	Dec 28 82	Jan 3 84	1	100	100	91	88	106	36		1.11	1.14	102.6
Southern Ill U	Jan 4 83	Jan 3 84	2B	100	100	83	82	100	42		1.06	1.24	117.0
Indiana													
NADP													

Nitrate

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	NO3 Dep g/m2	Total Precip cm
Indiana Dunes	Jan 4 83	Jan 3 84	3	98	99	90	92	89	46		1.81	1.70	93.5
Purdue U Ag Farm	Jan 4 83	Jan 3 84	2	100	96	92	91	97	43		1.59	1.36	85.2
UAPSP													
Fort Wayne	Jan 1 83	Jan 1 84	2A	100	99	96	85	91	92		1.58	1.39	88.0
Rockport	Jan 1 83	Jan 1 84	3	100	100	100	99	92	84		1.07	1.33	124.5
Kansas													
NADP													
Konza Prairie	Jan 4 83	Jan 3 84	2	100	95	87	87	97	39		1.34	1.02	76.0
UAPSP													
Lancaster	Jan 1 83	Jan 1 84	2A	100	98	97	90	93	70		1.08	.93	86.7
Kentucky													
UAPSP													
Morehead	Jan 1 83	Jan 1 84	2A	100	99	97	92	103	121		1.53	1.57	102.7
Maine													
NADP													
Greenville Station	Jan 4 83	Jan 3 84	2B	100	98	87	87	89	45		.54	.79	145.3
UAPSP													
Winterport	Jan 1 83	Jan 1 84	2A	100	100	98	94	93	100	2	.47	.74	157.8
Massachusetts													
NADP													
East	Jan 4 83	Jan 3 84	3	100	97	94	94	97	46	2	.83	1.11	133.7
UAPSP													
Turners Falls	Jan 1 83	Jan 1 84	2A	100	100	99	97	95	93		1.14	1.66	145.6
Michigan													
NADP													
Douglas Lake	Jan 4 83	Jan 3 84	1	100	90	81	81	95	39		1.46	1.31	89.5
Kellogg	Jan 4 83	Jan 3 84	2A	99	87	79	78	84	38		2.11	2.00	94.6
Wellston	Jan 4 83	Jan 3 84	2A	100	97	94	94	88	46		1.78	1.73	97.0
UAPSP													
Gaylord	Jan 1 83	Jan 1 84	2A	100	95	96	87	91	97		1.36	1.23	90.1
Minnesota													
NADP													
Fernberg	Jan 4 83	Jan 3 84	1	100	94	87	87	84	41		.80	.71	88.9
Marcell	Jan 4 83	Jan 3 84	2B	100	90	77	76	92	37	1	1.17	.82	70.1
Mississippi													
NADP													
Meridian	Jan 4 83	Jan 3 84	3	100	89	83	81	87	38	1	.66	1.17	177.3
UAPSP													
Clinton	Jan 1 83	Jan 1 84	2A	100	100	99	97	97	109		.72	1.36	189.0
Missouri													
NADP													
Ashland	Jan 4 83	Jan 3 84	2	100	99	90	90	94	45	1	1.32	1.36	103.5
University Forest	Jan 4 83	Jan 3 84	2	100	98	85	84	96	41		1.04	1.19	114.2
Montana													
NADP													
Glacier Nat Park	Jan 4 83	Jan 3 84		98	95	85	87	86	41	2	.34	.28	83.2
Nebraska													
NADP													
Mead	Dec 29 82	Jan 3 84	2	100	95	81	78	99	36		1.39	.92	66.1
New Hampshire													

Nitrate

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	NO3 Dep g/m2	Total Precip cm
NADP													
Hubbard Brook	Jan 4 83	Jan 3 84	1	100	91	88	88	95	45		1.18	1.55	130.8
New Mexico													
NADP													
Bandelier	Jan 4 83	Jan 3 84		100	91	85	80	91	36	1	.90	.33	37.1
CUBA	Jan 4 83	Jan 3 84		100	84	83	82	88	36		.89	.31	34.8
New York													
NADP													
Aurora	Dec 29 82	Jan 3 84	2A	100	100	96	96	89	48		1.82	1.44	79.4
Bennett Bridge	Jan 4 83	Jan 3 84	2A	98	97	94	98	89	46		1.96	2.82	143.8
Chautauqua	Jan 4 83	Jan 3 84	2A	100	97	87	86	94	44		1.81	1.89	104.5
Huntington	Jan 4 83	Jan 3 84	2B	100	90	84	85	99	44		1.25	1.48	118.3
Jasper	Jan 4 83	Jan 3 84	2A	100	97	90	92	95	45		1.44	.97	67.2
Knobit	Jan 4 83	Jan 3 84	2A	100	82	77	82	94	37		1.24	1.50	121.3
Stilwell Lake	Jan 4 83	Jan 3 84	2B	100	90	87	86	93	43		1.16	2.14	184.9
MAP3s/PCN													
Brookhaven	Jan 1 83	Jan 1 84	2B	99	98	97	88	105	68		.91	1.38	152.2
Ithaca	Jan 1 83	Jan 1 84	2A	99	96	98	92	93	71		1.68	1.82	108.5
Whiteface	Jan 1 83	Jan 1 84	1	99	98	96	89	111	105		1.08	1.30	119.8
UAPSP													
Big Moose	Jan 1 83	Jan 1 84	1	100	99	96	91	95	156		1.40	2.02	143.9
North Carolina													
NADP													
Clinton Station	Jan 4 83	Jan 3 84	2A	98	97	87	87	97	40		.78	.99	127.2
Finley (A)	Jan 4 83	Jan 3 84	2A	100	81	87	86	89	42		1.12	1.34	119.7
Lewiston	Jan 4 83	Jan 3 84	2A	100	94	93	91	95	42		1.16	1.22	105.1
Piedmont Station	Jan 4 83	Jan 3 84	2A	100	100	92	92	97	44		1.09	1.19	109.4
UAPSP													
Raleigh	Jan 1 83	Jan 1 84	3	100	95	98	93	87	80	1	.92	1.17	126.7
Ohio													
NADP													
Caldwell	Jan 4 83	Jan 3 84	2B	100	95	92	92	100	47		1.59	1.64	103.4
Delaware	Jan 4 83	Jan 3 84	2A	100	100	96	96	100	48		1.59	1.38	87.2
Wooster	Jan 4 83	Jan 3 84	3	100	93	87	86	98	44		1.73	1.49	86.0
UAPSP													
McArthur	Jan 1 83	Jan 1 84	2A	100	99	97	93	98	121		1.33	1.30	98.4
Zanesville	Jan 1 83	Jan 1 84	3	100	100	99	96	102	118		1.37	1.38	100.7
Oklahoma													
NADP													
Clayton Lake	Jan 1 83	Jan 3 84		92	95	78	84	96	38		1.12	1.12	99.4
Oregon													
NADP													
Lost Creek Dam	Jan 4 83	Jan 1 84		93	90	79	85	101	34	2	.23	.22	96.7
Pennsylvania													
NADP													
Kane	Jan 4 83	Jan 3 84	2A	100	86	83	82	93	42	1	1.49	1.90	128.0
Leading Ridge	Jan 4 83	Jan 3 84	1	100	98	94	94	90	46		1.64	1.90	115.9
MAP3s/PCN													
Penn State	Jan 1 83	Jan 1 84	2B	99	99	93	76	109	66		1.67	1.75	105.2
UAPSP													

Nitrate

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	NO3 Dep g/m2	Total Precip cm
Scranton	Jan 1 83	Jan 1 84	2A	100	99	97	89	86	101		1.26	1.41	111.6
South Carolina													
NADP													
Clemson	Jan 4 83	Jan 3 84	3	100	95	88	88	97	43		.91	1.09	119.7
South Dakota													
UAPSP													
Brookings	Jan 1 83	Jan 1 84	2A	100	87	98	88	99	52		1.09	.64	58.6
Tennessee													
NADP													
Walker Branch	Jan 4 83	Jan 3 84	2A	100	97	90	90	102	43	1	.88	1.01	115.3
MAP3s/PCN													
Oak Ridge	Jan 1 83	Jan 1 84	2B	99	100	99	100	108	60		.93	1.08	115.2
UAPSP													
Alamo	Jan 1 83	Jan 1 84	2B	100	97	99	92	96	44		.63	.59	93.0
Texas													
NADP													
Forest Seed Ctr	Jan 4 83	Jan 3 84	2	100	80	88	85	98	39	1	.70	.92	131.8
K-Bar	Jan 4 83	Jan 3 84	2	100	98	92	88	101	29	1	.63	.18	28.6
Longview	Jan 4 83	Jan 3 84	2	100	98	83	80	99	37		.81	.90	111.4
UAPSP													
Marshall	Jan 1 83	Jan 1 84	2A	100	100	99	93	99	65		.74	.78	105.8
Vermont													
NADP													
Bennington	Jan 4 83	Jan 3 84	2A	100	96	92	94	89	47		1.24	1.47	119.1
UAPSP													
Underhill Center	Jan 1 83	Jan 1 84	2A	100	100	97	92	95	145	1	.95	1.49	157.7
Virginia													
MAP3s/PCN													
Virginia	Jan 1 83	Jan 1 84	2A	99	91	96	84	105	51		1.20	1.72	142.7
West Virginia													
NADP													
Parsons	Jan 4 83	Jan 3 84	2A	100	99	96	96	91	49		1.39	1.71	122.9
Wisconsin													
NADP													
Lake Dubay	Jan 4 83	Jan 3 84	2	99	96	90	89	93	42		1.81	1.16	64.1
Spooner	Jan 4 83	Jan 3 84	1	100	97	87	85	86	41	1	1.34	1.22	91.3
Trout Lake	Jan 4 83	Jan 3 84	1	100	84	81	82	95	40		1.12	.94	83.8
WISC													
Legend Lake	Jan 1 83	Jan 1 84		96	95	91	78	100	73		1.83	1.62	88.4
Round Lake	Jan 1 83	Jan 1 84	1	100	98	93	81	89	102		1.17	1.02	86.6
Wyoming													
NADP													
Newcastle	Jan 4 83	Jan 3 84		100	100	92	91	87	41	1	1.02	.35	34.3
American Samoa													
NADP													
American Samoa	Jan 4 83	Jan 3 84		100	98	94	94	100	48	37	.02	.04	176.0
Alberta													
CANSAP													
Fort McMurray	Jan 1 83	Jan 1 84		100	96	84	83	76	10	3	.57	.22	38.3
British Columbia													

Nitrate

State / Network / Site Name	Period Summarized First Date	Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	NO3 Dep g/m2	Total Precip cm
CANSAP													
Kelowna	Dec 31 82	Jan 1 84		100	86	84	83	75	10		.56	.26	46.9
Port Hardy	Dec 31 82	Jan 1 84		100	100	100	100	79	12	7	.06	.10	180.4
Revelstoke	Jan 1 83	Jan 1 84		100	100	100	100	87	12	2	.23	.25	107.4
Vancouver	Dec 31 82	Jan 1 84		100	100	100	100	79	12		.98	1.46	148.3
New Brunswick													
CANSAP													
Acadia Fes	Jan 1 83	Jan 1 84	3	100	100	100	100	92	12		.78	.94	120.8
Newfoundland													
CANSAP													
Stephenville	Jan 1 83	Jan 1 84	3	100	86	83	83	88	10		.60	.80	133.9
Nova Scotia													
CANSAP													
Kejimkujik (a)	Dec 31 82	Jan 1 84	2A	100	100	100	100	98	12	1	.34	.45	134.0
Truro	Jan 1 83	Jan 1 84	3	100	93	92	92	86	11	3	.43	.53	123.6
Ontario													
CANSAP													
Dorset (a)	Dec 31 82	Jan 3 84	1	100	100	100	100	86	12		1.99	2.12	106.5
Mount Forest (a)	Jan 3 83	Jan 3 84	3	100	100	100	100	84	12		2.58	2.55	99.0
APIOS-D													
Balsam Lake	Jan 1 83	Jan 1 84	1	100	95	93	80	81	107	1	1.67	1.57	94.2
Charleston Lake	Jan 1 83	Jan 1 84	2A	100	92	93	76	83	84		1.36	1.27	93.4
Lac Le Croix (b)	Jan 1 83	Jan 1 84	2A	100	92	93	75	84	47	4	.73	.42	56.9
Longwoods (b)	Jan 1 83	Jan 1 84	2B	100	94	92	75	93	88	1	1.75	1.63	93.0
Melbourne	Jan 1 83	Jan 1 84	2A	100	97	95	84	100	88	1	2.03	1.92	94.7
North Easthope	Jan 1 83	Jan 1 84	2A	100	92	92	78	93	101		1.58	1.69	107.2
Raven Lake	Jan 1 83	Jan 1 84	1	100	95	94	85	93	123	1	1.93	1.78	92.6
Wellesley	Jan 1 83	Jan 1 84	2B	100	92	94	82	90	103		1.57	1.67	106.2
APIOS-C													
Colchester	Jan 4 83	Jan 3 84	2A	100	90	85	85	84	11		2.23	1.90	85.3
Coldwater	Jan 4 83	Jan 3 84	1	100	100	100	100	91	13		2.14	1.79	83.6
Dorion	Jan 4 83	Jan 3 84	1	100	100	100	100	84	13		1.02	.79	77.7
Dorset (c)	Jan 4 83	Jan 3 84	1	100	100	100	100	89	13		1.93	1.87	96.7
Expt. Lake Area	Jan 4 83	Jan 3 84	2A	100	87	92	86	75	12		1.11	.52	46.6
Gowganda	Jan 4 83	Jan 3 84	2A	100	90	92	92	84	12		1.15	.85	73.8
Huron Park	Jan 4 83	Jan 3 84	2A	100	93	92	92	80	12		2.52	1.99	79.0
Killarney	Jan 5 83	Jan 3 84	2A	100	91	92	92	78	12		2.32	2.15	92.7
Mattawa	Jan 4 83	Jan 4 84	2A	100	96	92	92	81	12		1.33	1.27	95.0
Merlin	Jan 4 83	Jan 3 84	2A	100	88	92	92	79	12		2.78	2.34	84.0
Palmerston	Jan 4 83	Jan 4 84	2A	100	100	100	100	78	13		2.25	1.70	75.8
Port Stanley	Jan 4 83	Jan 3 84	2B	100	86	85	85	75	11		2.50	2.36	94.4
Quetico Centre	Jan 4 83	Jan 3 84	1	99	83	85	79	78	11		.98	.87	88.0
Shallow Lake	Jan 4 83	Jan 3 84	2A	100	88	94	92	81	12		2.51	2.46	98.1
Smith's Falls	Jan 4 83	Jan 3 84	3	100	91	92	92	84	12		1.70	1.41	82.8
Waterloo	Jan 4 83	Jan 3 84	2A	100	94	92	92	81	12		2.24	2.03	90.7
Wilberforce	Jan 4 83	Jan 3 84	1	100	100	100	100	80	13		1.98	1.93	97.3
Quebec													
CANSAP													
Maniwaki	Jan 1 83	Jan 1 84	2B	100	85	83	83	80	10		1.61	1.51	93.7

Ammonium

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N POL	Wtd Mean mg/l	NH4 Dep g/m2	Total Precip cm
Alabama													
UAPSP													
Selma	Jan 1 83	Jan 1 84	2A	100	100	100	99	96	103	5	.17	.303	177.0
Arizona													
NADP													
Grand Canyon	Jan 4 83	Jan 3 84		100	100	88	86	89	36	8	.09	.047	51.8
Organ Pipe Mon.	Jan 4 83	Jan 3 84		100	99	90	84	94	26	8	.14	.065	46.9
Arkansas													
NADP													
Fayetteville	Jan 4 83	Jan 3 84	2B	98	98	90	91	88	40		.39	.352	90.6
Warren 2WSW	Jan 4 83	Jan 3 84	2	100	94	87	88	99	42	3	.21	.277	132.5
California													
NADP													
Davis Site	Jan 4 83	Jan 3 84		100	100	92	87	98	27		.37	.340	91.8
Hopland (Ukiah)	Jan 4 83	Jan 3 84		100	100	98	97	99	34	15	.05	.090	182.8
Sequoia Nat. Park	Jan 4 83	Jan 3 84		98	93	83	78	101	28	4	.13	.192	148.6
Tanbark Flat	Jan 4 83	Jan 3 84		100	99	85	77	92	27		.17	.221	131.3
Yosemite	Jan 4 83	Dec 30 83		100	90	89	85	99	33	8	.09	.200	230.1
Colorado													
NADP													
Manitou	Jan 4 83	Jan 3 84		100	93	85	83	81	38	6	.18	.087	48.8
Mesa Verde	Jan 4 83	Jan 3 84		100	94	79	77	81	36	7	.09	.051	57.4
Pawnee	Jan 4 83	Jan 3 84	2A	100	97	87	83	85	34	4	.50	.185	37.3
Rocky Mt. Nat Park	Jan 4 83	Dec 27 83		100	94	96	94	93	46	7	.16	.071	45.0
Sand Spring	Jan 4 83	Jan 3 84		100	83	87	86	96	44	2	.16	.068	42.8
UAPSP													
Yampa	Jan 1 83	Jan 1 84	1	100	95	95	89	85	110	1	.20	.081	39.8
Delaware													
MAP3s/PCN													
Lewes	Jan 1 83	Jan 1 84	2A	99	100	96	87	108	65	3	.21	.301	144.9
Florida													
NADP													
Bradford Forest	Jan 4 83	Jan 3 84	2A	98	92	82	83	94	40	7	.10	.160	158.7
Georgia													
NADP													
Georgia Station	Jan 4 83	Jan 3 84	2A	100	91	81	80	96	40	7	.20	.240	122.7
UAPSP													
Uvalda	Jan 1 83	Jan 1 84	2A	100	99	99	95	99	87	8	.11	.133	122.7
Hawaii													
NADP													
Mauna Loa	Jan 4 83	Jan 3 84		100	100	94	83	96	15	11	.02	.003	15.2
Illinois													
NADP													
Argonne	Jan 4 83	Jan 3 84	3	100	89	83	84	102	41		.47	.525	112.7
Dixon Springs	Jan 4 83	Jan 3 84	2B	100	100	87	85	89	40	1	.27	.401	146.6
NIARC	Jan 4 83	Jan 3 84	1	100	96	77	77	97	40	2	.36	.358	100.1
Salem	Dec 28 82	Jan 3 84	1	100	100	91	88	106	36		.26	.263	102.6
Southern Ill U	Jan 4 83	Jan 3 84	2B	100	100	83	82	100	42		.30	.351	117.0
Indiana													
NADP													

Ammonium

State / Network / Site Name	Period Summarized First Date	Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	NH4 Dep g/m2	Total Precip cm
Indiana Dunes	Jan 4 83	Jan 3 84	3	98	99	90	92	89	46	1	.42	.389	93.5
Purdue U Ag Farm	Jan 4 83	Jan 3 84	2	100	96	92	91	97	43	1	.37	.311	85.2
UAPSP													
Fort Wayne	Jan 1 83	Jan 1 84	2A	100	99	95	84	91	91	1	.37	.327	88.0
Rockport	Jan 1 83	Jan 1 84	3	100	100	100	100	92	85		.29	.361	124.5
Kansas													
NADP													
Konza Prairie	Jan 4 83	Jan 3 84	2	100	95	87	87	97	39		.37	.283	76.0
UAPSP													
Lancaster	Jan 1 83	Jan 1 84	2A	100	98	97	90	93	70		.38	.333	86.7
Kentucky													
UAPSP													
Morehead	Jan 1 83	Jan 1 84	2A	100	99	98	93	103	122	5	.44	.454	102.7
Maine													
NADP													
Greenville Station	Jan 4 83	Jan 3 84	2B	100	98	87	87	89	45	13	.11	.161	145.3
UAPSP													
Winterport	Jan 1 83	Jan 1 84	2A	100	99	98	92	93	97	26	.08	.134	157.8
Massachusetts													
NADP													
East	Jan 4 83	Jan 3 84	3	100	97	94	94	97	46	10	.10	.131	133.7
UAPSP													
Turners Falls	Jan 1 83	Jan 1 84	2A	100	100	99	96	95	92	8	.16	.233	145.6
Michigan													
NADP													
Douglas Lake	Jan 4 83	Jan 3 84	1	100	90	81	81	95	39	1	.27	.241	89.5
Kellogg	Jan 4 83	Jan 3 84	2A	99	87	79	78	84	38	1	.43	.406	94.6
Wellston	Jan 4 83	Jan 3 84	2A	100	97	94	94	88	46		.35	.343	97.0
UAPSP													
Gaylord	Jan 1 83	Jan 1 84	2A	100	95	96	86	91	96	4	.30	.273	90.1
Minnesota													
NADP													
Fernberg	Jan 4 83	Jan 3 84	1	100	94	87	87	84	41	9	.23	.206	88.9
Marcell	Jan 4 83	Jan 3 84	2B	100	90	77	76	92	37	2	.39	.271	70.1
Mississippi													
NADP													
Meridian	Jan 4 83	Jan 3 84	3	100	89	83	81	87	38	4	.15	.274	177.3
UAPSP													
Clinton	Jan 1 83	Jan 1 84	2A	100	100	99	98	97	110	4	.24	.461	189.0
Missouri													
NADP													
Ashland	Jan 4 83	Jan 3 84	2	100	99	90	90	94	45	4	.34	.357	103.5
University Forest	Jan 4 83	Jan 3 84	2	100	98	85	84	96	41	4	.27	.304	114.2
Montana													
NADP													
Glacier Nat Park	Jan 4 83	Jan 3 84		98	95	85	87	86	41	6	.07	.059	83.2
Nebraska													
NADP													
Mead	Dec 29 82	Jan 3 84	2	100	95	81	78	99	36	1	.67	.442	66.1
New Hampshire													

Ammonium

State / Network / Site Name	Period Summarized First Date	Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	NH4 Dep g/m2	Total Precip cm
NADP													
Hubbard Brook	Jan 4 83	Jan 3 84	1	100	91	88	88	95	45	8	.17	.219	130.8
New Mexico													
NADP													
Bandelier	Jan 4 83	Jan 3 84		100	91	85	80	91	36	7	.16	.060	37.1
CUBA	Jan 4 83	Jan 3 84		100	84	83	82	88	36	4	.17	.058	34.8
New York													
NADP													
Aurora	Dec 29 82	Jan 3 84	2A	100	100	96	96	89	48	2	.29	.233	79.4
Bennett Bridge	Jan 4 83	Jan 3 84	2A	98	97	94	98	89	46	1	.30	.431	143.8
Chautauqua	Jan 4 83	Jan 3 84	2A	100	97	87	86	94	44	4	.30	.318	104.5
Huntington	Jan 4 83	Jan 3 84	2B	100	90	84	85	99	44	1	.22	.261	118.3
Jasper	Jan 4 83	Jan 3 84	2A	100	97	90	92	95	45	1	.22	.149	67.2
Knobit	Jan 4 83	Jan 3 84	2A	100	82	77	82	94	37	8	.14	.164	121.3
Stilwell Lake	Jan 4 83	Jan 3 84	2B	100	90	87	86	93	43	5	.12	.226	184.9
MAP3s/PCN													
Brookhaven	Jan 1 83	Jan 1 84	2B	99	99	97	90	105	69	2	.11	.175	152.2
Ithaca	Jan 1 83	Jan 1 84	2A	99	96	98	92	93	71		.31	.337	108.5
Whiteface	Jan 1 83	Jan 1 84	1	99	98	96	89	111	105	4	.20	.239	119.8
UAPSP													
Big Moose	Jan 1 83	Jan 1 84	1	100	99	96	92	95	158	10	.24	.350	143.9
North Carolina													
NADP													
Clinton Station	Jan 4 83	Jan 3 84	2A	98	97	87	87	97	40	1	.17	.220	127.2
Finley (A)	Jan 4 83	Jan 3 84	2A	100	81	87	86	89	42	2	.32	.381	119.7
Lewiston	Jan 4 83	Jan 3 84	2A	100	94	93	91	95	42		.28	.299	105.1
Piedmont Station	Jan 4 83	Jan 3 84	2A	100	100	92	92	97	44	2	.31	.340	109.4
UAPSP													
Raleigh	Jan 1 83	Jan 1 84	3	100	95	99	94	87	81	2	.25	.313	126.7
Ohio													
NADP													
Caldwell	Jan 4 83	Jan 3 84	2B	100	95	92	92	100	47	5	.25	.257	103.4
Delaware	Jan 4 83	Jan 3 84	2A	100	100	96	96	100	48	2	.31	.272	87.2
Wooster	Jan 4 83	Jan 3 84	3	100	93	87	86	98	44		.37	.317	86.0
UAPSP													
McArthur	Jan 1 83	Jan 1 84	2A	100	99	97	93	98	121	7	.23	.225	98.4
Zanesville	Jan 1 83	Jan 1 84	3	100	99	98	94	102	116	2	.26	.262	100.7
Oklahoma													
NADP													
Clayton Lake	Jan 1 83	Jan 3 84		92	95	78	84	96	38	1	.35	.347	99.4
Oregon													
NADP													
Lost Creek Dam	Jan 4 83	Jan 1 84		93	90	79	85	101	34	23	.02	.024	96.7
Pennsylvania													
NADP													
Kane	Jan 4 83	Jan 3 84	2A	100	86	83	82	93	42	6	.25	.325	128.0
Leading Ridge	Jan 4 83	Jan 3 84	1	100	98	94	94	90	46	3	.25	.284	115.9
MAP3s/PCN													
Penn State	Jan 1 83	Jan 1 84	2B	99	99	93	76	109	66	1	.23	.247	105.2
UAPSP													

Ammonium

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	NH4 Dep g/m2	Total Precip cm
Scranton	Jan 1 83	Jan 1 84	2A	100	99	97	89	86	101	6	.16	.174	111.6
South Carolina													
NADP													
Clemson	Jan 4 83	Jan 3 84	3	100	95	88	88	97	43	1	.20	.243	119.7
South Dakota													
UAPSP													
Brookings	Jan 1 83	Jan 1 84	2A	100	87	98	90	99	53		.63	.368	58.6
Tennessee													
NADP													
Walker Branch	Jan 4 83	Jan 3 84	2A	100	97	90	90	102	43	6	.15	.177	115.3
MAP3s/PCN													
Oak Ridge	Jan 1 83	Jan 1 84	2B	99	100	99	100	108	60	5	.15	.173	115.2
UAPSP													
Alamo	Jan 1 83	Jan 1 84	2B	100	97	99	92	96	44		.21	.198	93.0
Texas													
NADP													
Forest Seed Ctr	Jan 4 83	Jan 3 84	2	100	80	88	85	98	39	1	.17	.228	131.8
K-Bar	Jan 4 83	Jan 3 84	2	100	98	92	88	101	29	3	.26	.074	28.6
Longview	Jan 4 83	Jan 3 84	2	100	98	83	80	99	37	2	.27	.298	111.4
UAPSP													
Marshall	Jan 1 83	Jan 1 84	2A	100	100	99	96	99	67	2	.23	.243	105.8
Vermont													
NADP													
Bennington	Jan 4 83	Jan 3 84	2A	100	96	92	94	89	47	9	.21	.250	119.1
UAPSP													
Underhill Center	Jan 1 83	Jan 1 84	2A	100	100	97	92	95	145	25	.19	.300	157.7
Virginia													
MAP3s/PCN													
Virginia	Jan 1 83	Jan 1 84	2A	99	91	96	84	105	51	1	.23	.327	142.7
West Virginia													
NADP													
Parsons	Jan 4 83	Jan 3 84	2A	100	99	96	96	91	49	8	.21	.253	122.9
Wisconsin													
NADP													
Lake Dubay	Jan 4 83	Jan 3 84	2	99	96	90	89	93	42	2	.51	.326	64.1
Spooner	Jan 4 83	Jan 3 84	1	100	97	87	85	86	41	5	.39	.356	91.3
Trout Lake	Jan 4 83	Jan 3 84	1	100	84	81	82	95	40	5	.27	.229	83.8
WISC													
Legend Lake	Jan 1 83	Jan 1 84		96	96	91	79	100	74	1	.51	.452	88.4
Round Lake	Jan 1 83	Jan 1 84	1	100	98	93	81	89	102	8	.42	.360	86.6
Wyoming													
NADP													
Newcastle	Jan 4 83	Jan 3 84		100	100	92	91	87	41	7	.36	.123	34.3
American Samoa													
NADP													
American Samoa	Jan 4 83	Jan 3 84		100	98	94	94	100	48	36	.02	.028	176.0
Alberta													
CANSAP													
Fort McMurray	Jan 1 83	Jan 1 84		100	98	91	92	75	11	4	.05	.017	38.3
British Columbia													

Ammonium

State / Network / Site Name	Period Summarized First Date	Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	NH4 Dep g/m2	Total Precip cm
CANSAP													
Kelowna	Dec 31 82	Jan 1 84		100	86	84	83	75	10	1	.16	.074	46.9
Port Hardy	Dec 31 82	Jan 1 84		100	100	100	100	79	12	6	.05	.086	180.4
Revelstoke	Jan 1 83	Jan 1 84		100	100	100	100	87	12	3	.04	.038	107.4
Vancouver	Dec 31 82	Jan 1 84		100	100	100	100	79	12		.15	.219	148.3
New Brunswick													
CANSAP													
Acadia Fes	Jan 1 83	Jan 1 84	3	100	100	100	100	92	12		.17	.202	120.8
Newfoundland													
CANSAP													
Stephenville	Jan 1 83	Jan 1 84	3	100	86	83	83	88	10	1	.10	.130	133.9
Nova Scotia													
CANSAP													
Kejimkujik (a)	Dec 31 82	Jan 1 84	2A	100	100	100	100	98	12	6	.06	.083	134.0
Truro	Jan 1 83	Jan 1 84	3	100	93	92	92	86	11	3	.11	.134	123.6
Ontario													
CANSAP													
Dorset (a)	Dec 31 82	Jan 3 84	1	100	100	100	100	86	12		.24	.256	106.5
Mount Forest (a)	Jan 3 83	Jan 3 84	3	100	100	100	100	84	12		.82	.814	99.0
APIOS-C													
Colchester	Jan 4 83	Jan 3 84	2A	100	90	85	85	84	11		.54	.463	85.3
Coldwater	Jan 4 83	Jan 3 84	1	100	95	92	92	90	12		.60	.502	83.6
Dorion	Jan 4 83	Jan 3 84	1	100	88	85	85	85	11		.24	.190	77.7
Dorset (c)	Jan 4 83	Jan 3 84	1	100	100	100	100	89	13		.38	.363	96.7
Gowganda	Jan 4 83	Jan 3 84	2A	100	90	92	92	84	12	1	.27	.200	73.8
Huron Park	Jan 4 83	Jan 3 84	2A	100	93	92	92	80	12		.80	.635	79.0
Killarney	Jan 5 83	Jan 3 84	2A	100	91	92	92	78	12		.49	.457	92.7
Mattawa	Jan 4 83	Jan 4 84	2A	100	96	92	92	81	12		.27	.253	95.0
Merlin	Jan 4 83	Jan 3 84	2A	100	88	92	92	79	12		.51	.429	84.0
Palmerston	Jan 4 83	Jan 4 84	2A	100	100	100	100	78	13		.77	.586	75.8
Port Stanley	Jan 4 83	Jan 3 84	2B	100	86	85	85	75	11		.64	.601	94.4
Shallow Lake	Jan 4 83	Jan 3 84	2A	100	88	94	92	81	12		.58	.570	98.1
Smith's Falls	Jan 4 83	Jan 3 84	3	100	91	92	92	84	12		.35	.289	82.8
Waterloo	Jan 4 83	Jan 3 84	2A	100	94	92	92	81	12		.79	.717	90.7
Wilberforce	Jan 4 83	Jan 3 84	1	100	100	100	100	80	13		.38	.366	97.3
Quebec													
CANSAP													
Maniwaki	Jan 1 83	Jan 1 84	2B	100	85	83	83	80	10		.47	.445	93.7

Calcium

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	CA Dep g/m2	Total Precip cm
Alabama													
UAPSP													
Selma	Jan 1 83	Jan 1 84	2A	100	100	98	94	96	98	18	.09	.160	177.0
Arizona													
NADP													
Grand Canyon	Jan 4 83	Jan 3 84		100	100	88	86	89	36		.26	.133	51.8
Organ Pipe Mon.	Jan 4 83	Jan 3 84		100	99	90	84	94	26		.16	.074	46.9
Arkansas													
NADP													
Fayetteville	Jan 4 83	Jan 3 84	2B	98	98	90	91	88	40		.31	.277	90.6
Warren 2WSW	Jan 4 83	Jan 3 84	2	100	94	87	88	99	42		.16	.214	132.5
California													
NADP													
Davis Site	Jan 4 83	Jan 3 84		100	100	92	87	98	27		.07	.065	91.8
Hopland (Ukiah)	Jan 4 83	Jan 3 84		100	100	98	97	99	34		.04	.077	182.8
Sequoia Nat. Park	Jan 4 83	Jan 3 84		98	93	83	78	101	28		.05	.076	148.6
Tanbark Flat	Jan 4 83	Jan 3 84		100	99	85	77	92	27		.06	.085	131.3
Yosemite	Jan 4 83	Dec 30 83		100	90	89	85	99	33	2	.04	.097	230.1
Colorado													
NADP													
Manitou	Jan 4 83	Jan 3 84		100	93	85	83	81	38		.25	.124	48.8
Mesa Verde	Jan 4 83	Jan 3 84		100	94	79	77	81	36		.28	.161	57.4
Pawnee	Jan 4 83	Jan 3 84	2A	100	97	87	83	85	34		.29	.108	37.3
Rocky Mt. Nat Park	Jan 4 83	Dec 27 83		100	94	96	94	93	46		.22	.100	45.0
Sand Spring	Jan 4 83	Jan 3 84		100	83	87	86	96	44		.27	.117	42.8
UAPSP													
Yampa	Jan 1 83	Jan 1 84	1	100	93	94	84	86	104	3	.17	.066	39.8
Delaware													
MAP3S/PCN													
Lewes	Jan 1 83	Jan 1 84	2A	99	100	96	87	108	65	2	.12	.180	144.9
Florida													
NADP													
Bradford Forest	Jan 4 83	Jan 3 84	2A	98	92	82	83	94	40		.11	.172	158.7
Georgia													
NADP													
Georgia Station	Jan 4 83	Jan 3 84	2A	100	91	81	80	96	40		.14	.170	122.7
UAPSP													
Uvalda	Jan 1 83	Jan 1 84	2A	100	99	98	93	99	86	19	.05	.067	122.7
Hawaii													
NADP													
Mauna Loa	Jan 4 83	Jan 3 84		100	100	94	83	96	15	1	.06	.009	15.2
Illinois													
NADP													
Argonne	Jan 4 83	Jan 3 84	3	100	89	83	84	102	41		.34	.380	112.7
Dixon Springs	Jan 4 83	Jan 3 84	2B	100	100	87	85	89	40		.18	.270	146.6
NIARC	Jan 4 83	Jan 3 84	1	100	96	77	77	97	40		.35	.352	100.1
Salem	Dec 28 82	Jan 3 84	1	100	100	91	88	106	36		.16	.164	102.6
Southern Ill U	Jan 4 83	Jan 3 84	2B	100	100	83	82	100	42		.19	.223	117.0
Indiana													
NADP													

Calcium

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	CA Dep g/m2	Total Precip cm
Indiana Dunes	Jan 4 83	Jan 3 84	3	98	99	90	92	89	46		.43	.402	93.5
Purdue U Ag Farm	Jan 4 83	Jan 3 84	2	100	96	92	91	97	43		.26	.221	85.2
UAPSP													
Fort Wayne	Jan 1 83	Jan 1 84	2A	100	98	95	81	91	88	3	.19	.166	88.0
Rockport	Jan 1 83	Jan 1 84	3	100	100	99	96	93	82	6	.16	.201	124.5
Kansas													
NADP													
Konza Prairie	Jan 4 83	Jan 3 84	2	100	95	87	87	97	39		.35	.268	76.0
UAPSP													
Lancaster	Jan 1 83	Jan 1 84	2A	100	98	97	90	93	70	2	.27	.230	86.7
Kentucky													
UAPSP													
Morehead	Jan 1 83	Jan 1 84	2A	100	97	94	82	103	108	12	.20	.209	102.7
Maine													
NADP													
Greenville Station	Jan 4 83	Jan 3 84	2B	100	98	87	87	89	45	1	.05	.075	145.3
UAPSP													
Winterport	Jan 1 83	Jan 1 84	2A	100	99	97	90	93	95	35	.03	.053	157.8
Massachusetts													
NADP													
East	Jan 4 83	Jan 3 84	3	100	97	94	94	97	46		.09	.115	133.7
UAPSP													
Turners Falls	Jan 1 83	Jan 1 84	2A	100	100	98	94	95	90	29	.05	.068	145.6
Michigan													
NADP													
Douglas Lake	Jan 4 83	Jan 3 84	1	100	90	81	81	95	39		.19	.172	89.5
Kellogg	Jan 4 83	Jan 3 84	2A	99	87	79	78	84	38		.25	.236	94.6
Wellston	Jan 4 83	Jan 3 84	2A	100	97	94	94	88	46		.24	.233	97.0
UAPSP													
Gaylord	Jan 1 83	Jan 1 84	2A	100	95	95	84	91	93	11	.16	.147	90.1
Minnesota													
NADP													
Fernberg	Jan 4 83	Jan 3 84	1	100	94	87	87	84	41		.16	.146	88.9
Marcell	Jan 4 83	Jan 3 84	2B	100	90	77	76	92	37		.23	.158	70.1
Mississippi													
NADP													
Meridian	Jan 4 83	Jan 3 84	3	100	89	83	81	87	38		.16	.288	177.3
UAPSP													
Clinton	Jan 1 83	Jan 1 84	2A	100	100	98	94	97	105	12	.17	.314	189.0
Missouri													
NADP													
Ashland	Jan 4 83	Jan 3 84	2	100	99	90	90	94	45		.29	.303	103.5
University Forest	Jan 4 83	Jan 3 84	2	100	98	85	84	96	41		.21	.240	114.2
Montana													
NADP													
Glacier Nat Park	Jan 4 83	Jan 3 84		98	95	85	87	86	41	1	.08	.069	83.2
Nebraska													
NADP													
Mead	Dec 29 82	Jan 3 84	2	100	95	81	78	99	36		.42	.275	66.1
New Hampshire													

Calcium

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	CA Dep g/m2	Total Precip cm
NADP													
Hubbard Brook	Jan 4 83	Jan 3 84	1	100	91	88	88	95	45		.07	.087	130.8
New Mexico													
NADP													
Bandelier	Jan 4 83	Jan 3 84		100	91	85	80	91	36		.33	.122	37.1
CUBA	Jan 4 83	Jan 3 84		100	84	83	82	88	36		.31	.109	34.8
New York													
NADP													
Aurora	Dec 29 82	Jan 3 84	2A	100	100	96	96	89	48		.20	.162	79.4
Bennett Bridge	Jan 4 83	Jan 3 84	2A	98	97	94	98	89	46		.14	.197	143.8
Chautauqua	Jan 4 83	Jan 3 84	2A	100	97	87	86	94	44		.17	.175	104.5
Huntington	Jan 4 83	Jan 3 84	2B	100	90	84	85	99	44		.11	.125	118.3
Jasper	Jan 4 83	Jan 3 84	2A	100	97	90	92	95	45		.11	.076	67.2
Knobit	Jan 4 83	Jan 3 84	2A	100	82	77	82	94	37		.08	.097	121.3
Stilwell Lake	Jan 4 83	Jan 3 84	2B	100	90	87	86	93	43		.08	.145	184.9
MAP3s/PCN													
Brookhaven	Jan 1 83	Jan 1 84	2B	99	99	97	90	105	69	1	.07	.108	152.2
Ithaca	Jan 1 83	Jan 1 84	2A	99	96	98	92	93	71	5	.10	.106	108.5
Whiteface	Jan 1 83	Jan 1 84	1	99	98	96	89	111	105	13	.07	.086	119.8
UAPSP													
Big Moose	Jan 1 83	Jan 1 84	1	100	98	93	85	95	146	15	.10	.146	143.9
North Carolina													
NADP													
Clinton Station	Jan 4 83	Jan 3 84	2A	98	97	87	87	97	40		.10	.122	127.2
Finley (A)	Jan 4 83	Jan 3 84	2A	100	81	87	86	89	42		.11	.133	119.7
Lewiston	Jan 4 83	Jan 3 84	2A	100	94	93	91	95	42		.12	.128	105.1
Piedmont Station	Jan 4 83	Jan 3 84	2A	100	100	92	92	97	44		.11	.124	109.4
UAPSP													
Raleigh	Jan 1 83	Jan 1 84	3	100	95	98	92	87	79	15	.07	.090	126.7
Ohio													
NADP													
Caldwell	Jan 4 83	Jan 3 84	2B	100	95	92	92	100	47		.23	.240	103.4
Delaware	Jan 4 83	Jan 3 84	2A	100	100	96	96	100	48		.22	.188	87.2
Wooster	Jan 4 83	Jan 3 84	3	100	93	87	86	98	44		.20	.172	86.0
UAPSP													
McArthur	Jan 1 83	Jan 1 84	2A	100	99	96	91	98	118	14	.15	.149	98.4
Zanesville	Jan 1 83	Jan 1 84	3	100	99	97	92	102	113	4	.17	.171	100.7
Oklahoma													
NADP													
Clayton Lake	Jan 1 83	Jan 3 84		92	95	78	84	96	38		.29	.286	99.4
Oregon													
NADP													
Lost Creek Dam	Jan 4 83	Jan 1 84		93	90	79	85	101	34	1	.05	.044	96.7
Pennsylvania													
NADP													
Kane	Jan 4 83	Jan 3 84	2A	100	86	83	82	93	42		.14	.185	128.0
Leading Ridge	Jan 4 83	Jan 3 84	1	100	98	94	94	90	46		.12	.141	115.9
MAP3s/PCN													
Penn State	Jan 1 83	Jan 1 84	2B	99	99	93	76	109	66	1	.10	.106	105.2
UAPSP													

Calcium

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	CA Dep g/m2	Total Precip cm
Scranton	Jan 1 83	Jan 1 84	2A	100	99	95	83	86	94	14	.06	.071	111.6
South Carolina													
NADP													
Clemson	Jan 4 83	Jan 3 84	3	100	95	88	88	97	43	1	.10	.118	119.7
South Dakota													
UAPSP													
Brookings	Jan 1 83	Jan 1 84	2A	100	87	98	88	99	52	4	.21	.126	58.6
Tennessee													
NADP													
Walker Branch	Jan 4 83	Jan 3 84	2A	100	97	90	90	102	43		.17	.201	115.3
MAP3S/PCN													
Oak Ridge	Jan 1 83	Jan 1 84	2B	99	100	99	100	108	60		.15	.177	115.2
UAPSP													
Alamo	Jan 1 83	Jan 1 84	2B	100	97	99	90	96	43	9	.12	.110	93.0
Texas													
NADP													
Forest Seed Ctr	Jan 4 83	Jan 3 84	2	100	80	88	85	98	39		.19	.251	131.8
K-Bar	Jan 4 83	Jan 3 84	2	100	98	92	88	101	29		.80	.228	28.6
Longview	Jan 4 83	Jan 3 84	2	100	98	83	80	99	37		.20	.228	111.4
UAPSP													
Marshall	Jan 1 83	Jan 1 84	2A	100	97	98	91	99	64	3	.14	.150	105.8
Vermont													
NADP													
Bennington	Jan 4 83	Jan 3 84	2A	100	96	92	94	89	47	1	.11	.127	119.1
UAPSP													
Underhill Center	Jan 1 83	Jan 1 84	2A	100	99	95	88	95	138	42	.06	.091	157.7
Virginia													
MAP3S/PCN													
Virginia	Jan 1 83	Jan 1 84	2A	99	91	96	84	105	51	5	.07	.104	142.7
West Virginia													
NADP													
Parsons	Jan 4 83	Jan 3 84	2A	100	99	96	96	91	49		.16	.198	122.9
Wisconsin													
NADP													
Lake Dubay	Jan 4 83	Jan 3 84	2	99	96	90	89	93	42		.32	.203	64.1
Spooner	Jan 4 83	Jan 3 84	1	100	97	87	85	86	41		.27	.244	91.3
Trout Lake	Jan 4 83	Jan 3 84	1	100	84	81	82	95	40		.19	.162	83.8
WISC													
Legend Lake	Jan 1 83	Jan 1 84		96	95	90	77	100	72		.32	.282	88.4
Round Lake	Jan 1 83	Jan 1 84	1	100	97	92	78	89	98	8	.22	.186	86.6
Wyoming													
NADP													
Newcastle	Jan 4 83	Jan 3 84		100	100	92	91	87	41		.35	.120	34.3
American Samoa													
NADP													
American Samoa	Jan 4 83	Jan 3 84		100	98	94	94	100	48		.14	.254	176.0
Alberta													
CANSAP													
Fort McMurray	Jan 1 83	Jan 1 84		100	96	84	83	76	10		1.32	.505	38.3
British Columbia													

Calcium

State / Network / Site Name	Period Summarized First Date	Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	CA Dep g/m2	Total Precip cm
CANSAP													
Kelowna	Dec 31 82	Jan 1 84		100	86	84	83	75	10	1	.17	.079	46.9
Port Hardy	Dec 31 82	Jan 1 84		100	100	100	100	79	12	3	.11	.192	180.4
Revelstoke	Jan 1 83	Jan 1 84		100	100	100	100	87	12	2	.20	.214	107.4
Vancouver	Dec 31 82	Jan 1 84		100	100	100	100	79	12		.23	.340	148.3
New Brunswick													
CANSAP													
Acadia Fes	Jan 1 83	Jan 1 84	3	100	100	100	100	92	12	8	.04	.052	120.8
Newfoundland													
CANSAP													
Stephenville	Jan 1 83	Jan 1 84	3	100	86	83	83	88	10	2	.09	.118	133.9
Nova Scotia													
CANSAP													
Kejimkujik (a)	Dec 31 82	Jan 1 84	2A	100	100	100	100	98	12	7	.05	.062	134.0
Truro	Jan 1 83	Jan 1 84	3	100	93	92	92	86	11	1	.17	.208	123.6
Ontario													
CANSAP													
Dorset (a)	Dec 31 82	Jan 3 84	1	100	100	100	100	86	12		.19	.206	106.5
Mount Forest (a)	Jan 3 83	Jan 3 84	3	100	100	100	100	84	12		.77	.759	99.0
APIOS-C													
Colchester	Jan 4 83	Jan 3 84	2A	100	90	85	85	84	11		.43	.371	85.3
Coldwater	Jan 4 83	Jan 3 84	1	100	100	100	100	91	13		.31	.259	83.6
Dorion	Jan 4 83	Jan 3 84	1	100	100	100	100	84	13		.17	.129	77.7
Dorset (c)	Jan 4 83	Jan 3 84	1	100	100	100	100	89	13		.20	.190	96.7
Gowganda	Jan 4 83	Jan 3 84	2A	100	90	92	92	84	12		.13	.094	73.8
Huron Park	Jan 4 83	Jan 3 84	2A	100	90	85	85	80	11		.71	.560	79.0
Killarney	Jan 5 83	Jan 3 84	2A	100	87	85	85	78	11		.23	.212	92.7
Mattawa	Jan 4 83	Jan 4 84	2A	100	79	84	85	81	11		.16	.151	95.0
Merlin	Jan 4 83	Jan 3 84	2A	100	85	85	85	79	11		.81	.678	84.0
Palmerston	Jan 4 83	Jan 4 84	2A	100	91	92	92	78	12		.55	.420	75.8
Port Stanley	Jan 4 83	Jan 3 84	2B	100	96	92	92	75	12		.61	.572	94.4
Shallow Lake	Jan 4 83	Jan 3 84	2A	100	88	94	92	81	12		.30	.293	98.1
Smith's Falls	Jan 4 83	Jan 3 84	3	100	89	85	85	85	11		.38	.313	82.8
Waterloo	Jan 4 83	Jan 3 84	2A	100	94	92	92	81	12		.42	.383	90.7
Wilberforce	Jan 4 83	Jan 3 84	1	100	100	100	100	80	13		.21	.201	97.3
Quebec													
CANSAP													
Maniwaki	Jan 1 83	Jan 1 84	2B	100	85	83	83	80	10		.19	.175	93.7

Magnesium

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSNP	% Col Eff	N	N BDL	Wtd Mean mg/l	MG Dep g/m2	Total Precip cm
Alabama													
UAPSP													
Selma	Jan 1 83	Jan 1 84	2A	100	100	98	94	96	98	9	.025	.0434	177.0
Arizona													
NADP													
Grand Canyon	Jan 4 83	Jan 3 84		100	100	88	86	89	36		.050	.0261	51.8
Organ Pipe Mon.	Jan 4 83	Jan 3 84		100	99	90	84	94	26		.045	.0212	46.9
Arkansas													
NADP													
Fayetteville	Jan 4 83	Jan 3 84	2B	98	98	90	91	88	40		.034	.0304	90.6
Warren 2WSW	Jan 4 83	Jan 3 84	2	100	94	87	88	99	42		.031	.0414	132.5
California													
NADP													
Davis Site	Jan 4 83	Jan 3 84		100	100	92	87	98	27		.046	.0424	91.8
Hopland (Ukiah)	Jan 4 83	Jan 3 84		100	100	98	97	99	34		.056	.1014	182.8
Sequoia Nat. Park	Jan 4 83	Jan 3 84		98	93	83	78	101	28		.019	.0288	148.6
Tanbark Flat	Jan 4 83	Jan 3 84		100	99	85	77	92	27		.044	.0574	131.3
Yosemite	Jan 4 83	Dec 30 83		100	90	89	85	99	33	1	.016	.0372	230.1
Colorado													
NADP													
Manitou	Jan 4 83	Jan 3 84		100	93	85	83	81	38		.044	.0216	48.8
Mesa Verde	Jan 4 83	Jan 3 84		100	94	79	77	81	36		.032	.0186	57.4
Pawnee	Jan 4 83	Jan 3 84	2A	100	97	87	83	85	34		.041	.0155	37.3
Rocky Mt. Nat Park	Jan 4 83	Dec 27 83		100	94	96	94	93	46		.036	.0162	45.0
Sand Spring	Jan 4 83	Jan 3 84		100	83	87	86	96	44		.047	.0203	42.8
UAPSP													
Yampa	Jan 1 83	Jan 1 84	1	100	93	94	84	86	104	13	.023	.0093	39.8
Delaware													
MAP3s/PCN													
Lewes	Jan 1 83	Jan 1 84	2A	99	100	96	87	108	65		.177	.2566	144.9
Florida													
NADP													
Bradford Forest	Jan 4 83	Jan 3 84	2A	98	92	82	83	94	40		.048	.0757	158.7
Georgia													
NADP													
Georgia Station	Jan 4 83	Jan 3 84	2A	100	91	81	80	96	40		.044	.0543	122.7
UAPSP													
Uvalda	Jan 1 83	Jan 1 84	2A	100	99	98	93	99	86	4	.024	.0294	122.7
Hawaii													
NADP													
Mauna Loa	Jan 4 83	Jan 3 84		100	100	94	83	96	15		.019	.0029	15.2
Illinois													
NADP													
Argonne	Jan 4 83	Jan 3 84	3	100	89	83	84	102	41		.064	.0718	112.7
Dixon Springs	Jan 4 83	Jan 3 84	2B	100	100	87	85	89	40		.026	.0382	146.6
NIARC	Jan 4 83	Jan 3 84	1	100	96	77	77	97	40		.059	.0589	100.1
Salem	Dec 28 82	Jan 3 84	1	100	100	91	88	106	36		.022	.0228	102.6
Southern Ill U	Jan 4 83	Jan 3 84	2B	100	100	83	82	100	42		.028	.0324	117.0
Indiana													
NADP													

Magnesium

State / Network / Site Name	Period Summarized First Date	Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	MG Dep g/m2	Total Precip cm
Indiana Dunes	Jan 4 83	Jan 3 84	3	98	99	90	92	89	46		.080	.0749	93.5
Purdue U Ag Farm	Jan 4 83	Jan 3 84	2	100	96	92	91	97	43		.042	.0360	85.2
UAPSP													
Fort Wayne	Jan 1 83	Jan 1 84	2A	100	98	95	81	91	88	3	.038	.0333	88.0
Rockport	Jan 1 83	Jan 1 84	3	100	100	99	96	93	82	13	.023	.0288	124.5
Kansas													
NADP													
Konza Prairie	Jan 4 83	Jan 3 84	2	100	95	87	87	97	39		.037	.0281	76.0
UAPSP													
Lancaster	Jan 1 83	Jan 1 84	2A	100	98	97	90	93	70	4	.025	.0215	86.7
Kentucky													
UAPSP													
Morehead	Jan 1 83	Jan 1 84	2A	100	97	94	83	103	109	18	.029	.0297	102.7
Maine													
NADP													
Greenville Station	Jan 4 83	Jan 3 84	2B	100	98	87	87	89	45		.016	.0232	145.3
UAPSP													
Winterport	Jan 1 83	Jan 1 84	2A	100	99	97	90	93	95	13	.042	.0660	157.8
Massachusetts													
NADP													
East	Jan 4 83	Jan 3 84	3	100	97	94	94	97	46		.077	.1027	133.7
UAPSP													
Turners Falls	Jan 1 83	Jan 1 84	2A	100	100	98	94	95	90	15	.024	.0347	145.6
Michigan													
NADP													
Douglas Lake	Jan 4 83	Jan 3 84	1	100	90	81	81	95	39		.038	.0339	89.5
Kellogg	Jan 4 83	Jan 3 84	2A	99	87	79	78	84	38		.049	.0461	94.6
Wellston	Jan 4 83	Jan 3 84	2A	100	97	94	94	88	46		.048	.0466	97.0
UAPSP													
Gaylord	Jan 1 83	Jan 1 84	2A	100	95	95	84	91	93	16	.028	.0250	90.1
Minnesota													
NADP													
Fernberg	Jan 4 83	Jan 3 84	1	100	94	87	87	84	41		.030	.0269	88.9
Marcell	Jan 4 83	Jan 3 84	2B	100	90	77	76	92	37		.037	.0260	70.1
Mississippi													
NADP													
Meridian	Jan 4 83	Jan 3 84	3	100	89	83	81	87	38		.036	.0646	177.3
UAPSP													
Clinton	Jan 1 83	Jan 1 84	2A	100	100	98	94	97	105	5	.029	.0551	189.0
Missouri													
NADP													
Ashland	Jan 4 83	Jan 3 84	2	100	99	90	90	94	45		.036	.0376	103.5
University Forest	Jan 4 83	Jan 3 84	2	100	98	85	84	96	41		.044	.0505	114.2
Montana													
NADP													
Glacier Nat Park	Jan 4 83	Jan 3 84		98	95	85	87	86	41	1	.020	.0166	83.2
Nebraska													
NADP													
Mead	Dec 29 82	Jan 3 84	2	100	95	81	78	99	36		.047	.0313	66.1
New Hampshire													

Magnesium

State / Network / Site Name	Period Summarized First Date	Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	MG Dep g/m2	Total Precip cm
NADP													
Hubbard Brook	Jan 4 83	Jan 3 84	1	100	91	88	88	95	45		.022	.0284	130.8
New Mexico													
NADP													
Bandelier	Jan 4 83	Jan 3 84		100	91	85	80	91	36		.038	.0141	37.1
CUBA	Jan 4 83	Jan 3 84		100	84	83	82	88	36		.039	.0137	34.8
New York													
NADP													
Aurora	Dec 29 82	Jan 3 84	2A	100	100	96	96	89	48		.044	.0350	79.4
Bennett Bridge	Jan 4 83	Jan 3 84	2A	98	97	94	98	89	46		.029	.0422	143.8
Chautauqua	Jan 4 83	Jan 3 84	2A	100	97	87	86	94	44		.034	.0351	104.5
Huntington	Jan 4 83	Jan 3 84	2B	100	90	84	85	99	44		.025	.0300	118.3
Jasper	Jan 4 83	Jan 3 84	2A	100	97	90	92	95	45		.026	.0172	67.2
Knobit	Jan 4 83	Jan 3 84	2A	100	82	77	82	94	37		.023	.0281	121.3
Stilwell Lake	Jan 4 83	Jan 3 84	2B	100	90	87	86	93	43		.047	.0863	184.9
MAP3s/PCN													
Brookhaven	Jan 1 83	Jan 1 84	2B	99	99	97	90	105	69	1	.085	.1294	152.2
Ithaca	Jan 1 83	Jan 1 84	2A	99	96	98	92	93	71	26	.014	.0152	108.5
Whiteface	Jan 1 83	Jan 1 84	1	99	98	96	89	111	105	53	.011	.0129	119.8
UAPSP													
Big Moose	Jan 1 83	Jan 1 84	1	100	98	93	85	95	146	12	.019	.0272	143.9
North Carolina													
NADP													
Clinton Station	Jan 4 83	Jan 3 84	2A	98	97	87	87	97	40		.057	.0725	127.2
Finley (A)	Jan 4 83	Jan 3 84	2A	100	81	87	86	89	42		.052	.0619	119.7
Lewiston	Jan 4 83	Jan 3 84	2A	100	94	93	91	95	42		.073	.0769	105.1
Piedmont Station	Jan 4 83	Jan 3 84	2A	100	100	92	92	97	44		.042	.0461	109.4
UAPSP													
Raleigh	Jan 1 83	Jan 1 84	3	100	95	98	92	87	79	4	.040	.0503	126.7
Ohio													
NADP													
Caldwell	Jan 4 83	Jan 3 84	2B	100	95	92	92	100	47		.041	.0426	103.4
Delaware	Jan 4 83	Jan 3 84	2A	100	100	96	96	100	48		.041	.0361	87.2
Wooster	Jan 4 83	Jan 3 84	3	100	93	87	86	98	44		.036	.0310	86.0
UAPSP													
McArthur	Jan 1 83	Jan 1 84	2A	100	99	96	91	98	118	21	.020	.0200	98.4
Zanesville	Jan 1 83	Jan 1 84	3	100	99	97	92	102	113	6	.025	.0250	100.7
Oklahoma													
NADP													
Clayton Lake	Jan 1 83	Jan 3 84		92	95	78	84	96	38		.041	.0405	99.4
Oregon													
NADP													
Lost Creek Dam	Jan 4 83	Jan 1 84		93	90	79	85	101	34		.016	.0153	96.7
Pennsylvania													
NADP													
Kane	Jan 4 83	Jan 3 84	2A	100	86	83	82	93	42		.027	.0348	128.0
Leading Ridge	Jan 4 83	Jan 3 84	1	100	98	94	94	90	46		.026	.0297	115.9
MAP3s/PCN													
Penn State	Jan 1 83	Jan 1 84	2B	99	99	93	76	109	66	26	.013	.0132	105.2
UAPSP													

Magnesium

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	MG Dep g/m2	Total Precip cm
Scranton	Jan 1 83	Jan 1 84	2A	100	99	95	83	86	94	19	.015	.0163	111.6
South Carolina													
NADP													
Clemson	Jan 4 83	Jan 3 84	3	100	95	88	88	97	43		.030	.0359	119.7
South Dakota													
UAPSP													
Brookings	Jan 1 83	Jan 1 84	2A	100	87	98	88	99	52	6	.029	.0167	58.6
Tennessee													
NADP													
Walker Branch	Jan 4 83	Jan 3 84	2A	100	97	90	90	102	43		.032	.0363	115.3
MAP3s/PCN													
Oak Ridge	Jan 1 83	Jan 1 84	2B	99	100	99	100	108	60	7	.019	.0222	115.2
UAPSP													
Alamo	Jan 1 83	Jan 1 84	2B	100	97	99	90	96	43	8	.016	.0148	93.0
Texas													
NADP													
Forest Seed Ctr	Jan 4 83	Jan 3 84	2	100	80	88	85	98	39		.050	.0657	131.8
K-Bar	Jan 4 83	Jan 3 84	2	100	98	92	88	101	29		.037	.0107	28.6
Longview	Jan 4 83	Jan 3 84	2	100	98	83	80	99	37		.039	.0431	111.4
UAPSP													
Marshall	Jan 1 83	Jan 1 84	2A	100	97	98	91	99	64	1	.024	.0255	105.8
Vermont													
NADP													
Bennington	Jan 4 83	Jan 3 84	2A	100	96	92	94	89	47		.032	.0381	119.1
UAPSP													
Underhill Center	Jan 1 83	Jan 1 84	2A	100	99	95	88	95	138	46	.008	.0133	157.7
Virginia													
MAP3s/PCN													
Virginia	Jan 1 83	Jan 1 84	2A	99	91	96	84	105	51	15	.021	.0300	142.7
West Virginia													
NADP													
Parsons	Jan 4 83	Jan 3 84	2A	100	99	96	96	91	49		.023	.0289	122.9
Wisconsin													
NADP													
Lake Dubay	Jan 4 83	Jan 3 84	2	99	96	90	89	93	42		.049	.0313	64.1
Spooner	Jan 4 83	Jan 3 84	1	100	97	87	85	86	41		.040	.0367	91.3
Trout Lake	Jan 4 83	Jan 3 84	1	100	84	81	82	95	40		.036	.0300	83.8
WISC													
Legend Lake	Jan 1 83	Jan 1 84		96	95	90	77	100	72	17	.047	.0414	88.4
Round Lake	Jan 1 83	Jan 1 84	1	100	97	92	78	89	98	47	.019	.0165	86.6
Wyoming													
NADP													
Newcastle	Jan 4 83	Jan 3 84		100	100	92	91	87	41		.049	.0169	34.3
American Samoa													
NADP													
American Samoa	Jan 4 83	Jan 3 84		100	98	94	94	100	48		.313	.5512	176.0
Alberta													
CANSAP													
Fort McMurray	Jan 1 83	Jan 1 84		100	96	84	83	76	10		.412	.1577	38.3
British Columbia													

Magnesium

State / Network / Site Name	Period Summarized First Date	Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	MG Dep g/m2	Total Precip cm
CANSAP													
Kelowna	Dec 31 82	Jan 1 84		100	86	84	83	75	10	2	.024	.0113	46.9
Port Hardy	Dec 31 82	Jan 1 84		100	100	100	100	79	12		.165	.2979	180.4
Revelstoke	Jan 1 83	Jan 1 84		100	100	100	100	87	12	2	.023	.0247	107.4
Vancouver	Dec 31 82	Jan 1 84		100	100	100	100	79	12		.058	.0865	148.3
New Brunswick													
CANSAP													
Acadia Fes	Jan 1 83	Jan 1 84	3	100	100	100	100	92	12		.030	.0360	120.8
Newfoundland													
CANSAP													
Stephenville	Jan 1 83	Jan 1 84	3	100	86	83	83	88	10		.080	.1074	133.9
Nova Scotia													
CANSAP													
Kejimkujik (a)	Dec 31 82	Jan 1 84	2A	100	100	100	100	98	12		.074	.0991	134.0
Truro	Jan 1 83	Jan 1 84	3	100	93	92	92	86	11		.071	.0871	123.6
Ontario													
CANSAP													
Dorset (a)	Dec 31 82	Jan 3 84	1	100	100	100	100	86	12		.036	.0387	106.5
Mount Forest (a)	Jan 3 83	Jan 3 84	3	100	100	100	100	84	12		.256	.2533	99.0
APIOS-C													
Colchester	Jan 4 83	Jan 3 84	2A	100	90	85	85	84	11		.105	.0899	85.3
Coldwater	Jan 4 83	Jan 3 84	1	100	100	100	100	91	13	1	.068	.0569	83.6
Dorion	Jan 4 83	Jan 3 84	1	100	84	85	85	84	11		.027	.0212	77.7
Dorset (c)	Jan 4 83	Jan 3 84	1	100	93	92	92	90	12		.033	.0317	96.7
Gowganda	Jan 4 83	Jan 3 84	2A	100	84	85	85	87	11		.022	.0163	73.8
Huron Park	Jan 4 83	Jan 3 84	2A	100	93	92	92	80	12		.125	.0988	79.0
Killarney	Jan 5 83	Jan 3 84	2A	100	87	85	85	78	11		.039	.0362	92.7
Nattawa	Jan 4 83	Jan 4 84	2A	100	79	84	85	81	11	1	.023	.0222	95.0
Merlin	Jan 4 83	Jan 3 84	2A	100	85	85	85	79	11		.148	.1246	84.0
Palmerston	Jan 4 83	Jan 4 84	2A	100	91	92	92	78	12		.144	.1092	75.8
Port Stanley	Jan 4 83	Jan 3 84	2B	100	96	92	92	75	12		.116	.1091	94.4
Shallow Lake	Jan 4 83	Jan 3 84	2A	100	88	94	92	81	12		.059	.0577	98.1
Waterloo	Jan 4 83	Jan 3 84	2A	100	94	92	92	81	12		.106	.0961	90.7
Wilberforce	Jan 4 83	Jan 3 84	1	100	95	92	92	80	12		.034	.0331	97.3
Quebec													
CANSAP													
Maniwaki	Jan 1 83	Jan 1 84	2B	100	85	83	83	80	10	1	.026	.0245	93.7
Sept Isles	Jan 1 83	Jan 1 84	3	100	89	92	92	75	11		.048	.0649	135.2

Potassium

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	K Dep g/m2	Total Precip cm
Alabama													
UAPSP													
Selma	Jan 1 83	Jan 1 84	2A	100	100	98	94	96	98	55	.040	.0700	177.0
Arizona													
NADP													
Grand Canyon	Jan 4 83	Jan 3 84		100	100	88	86	89	36	1	.025	.0128	51.8
Organ Pipe Mon.	Jan 4 83	Jan 3 84		100	99	90	84	94	26		.026	.0124	46.9
Arkansas													
NADP													
Fayetteville	Jan 4 83	Jan 3 84	2B	98	98	90	91	88	40		.046	.0419	90.6
Warren 2WSW	Jan 4 83	Jan 3 84	2	100	94	87	88	99	42		.041	.0546	132.5
California													
NADP													
Davis Site	Jan 4 83	Jan 3 84		100	100	92	87	98	27		.032	.0290	91.8
Hopland (Ukiah)	Jan 4 83	Jan 3 84		100	100	98	97	99	34		.024	.0435	182.8
Sequoia Nat. Park	Jan 4 83	Jan 3 84		98	93	83	78	101	28		.028	.0409	148.6
Tanbark Flat	Jan 4 83	Jan 3 84		100	99	85	77	92	27		.019	.0256	131.3
Yosemite	Jan 4 83	Dec 30 83		100	90	89	85	99	33		.015	.0356	230.1
Colorado													
NADP													
Manitou	Jan 4 83	Jan 3 84		100	93	85	83	81	38		.094	.0457	48.8
Mesa Verde	Jan 4 83	Jan 3 84		100	94	79	77	81	36	1	.022	.0128	57.4
Pawnee	Jan 4 83	Jan 3 84	2A	100	97	87	83	85	34		.051	.0189	37.3
Rocky Mt. Nat Park	Jan 4 83	Dec 27 83		100	94	96	94	93	46		.038	.0170	45.0
Sand Spring	Jan 4 83	Jan 3 84		100	83	87	86	96	44		.031	.0134	42.8
UAPSP													
Yampa	Jan 1 83	Jan 1 84	1	100	93	94	84	86	104	54	.035	.0139	39.8
Delaware													
MAP3s/PCN													
Lewes	Jan 1 83	Jan 1 84	2A	99	100	96	87	108	65	46	.031	.0447	144.9
Florida													
NADP													
Bradford Forest	Jan 4 83	Jan 3 84	2A	98	92	82	83	94	40		.051	.0804	158.7
Georgia													
NADP													
Georgia Station	Jan 4 83	Jan 3 84	2A	100	91	81	80	96	40		.086	.1049	122.7
UAPSP													
Uvalda	Jan 1 83	Jan 1 84	2A	100	99	98	93	99	86	46	.022	.0274	122.7
Hawaii													
NADP													
Mauna Loa	Jan 4 83	Jan 3 84		100	100	94	83	96	15	1	.013	.0020	15.2
Illinois													
NADP													
Argonne	Jan 4 83	Jan 3 84	3	100	89	83	84	102	41		.046	.0523	112.7
Dixon Springs	Jan 4 83	Jan 3 84	2B	100	100	87	85	89	40		.031	.0450	146.6
NIARC	Jan 4 83	Jan 3 84	1	100	96	77	77	97	40		.031	.0306	100.1
Salem	Dec 28 82	Jan 3 84	1	100	100	91	88	106	36		.037	.0377	102.6
Southern Ill U	Jan 4 83	Jan 3 84	2B	100	100	83	82	100	42		.032	.0373	117.0
Indiana													
NADP													

Potassium

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	K Dep g/m2	Total Precip cm
Indiana Dunes	Jan 4 83	Jan 3 84	3	98	99	90	92	89	46		.036	.0337	93.5
Purdue U Ag Farm	Jan 4 83	Jan 3 84	2	100	96	92	91	97	43		.026	.0221	85.2
UAPSP													
Fort Wayne	Jan 1 83	Jan 1 84	2A	100	98	95	81	91	88	47	.023	.0205	88.0
Rockport	Jan 1 83	Jan 1 84	3	100	100	99	96	93	82	40	.060	.0742	124.5
Kansas													
NADP													
Konza Prairie	Jan 4 83	Jan 3 84	2	100	95	87	87	97	39		.036	.0273	76.0
UAPSP													
Lancaster	Jan 1 83	Jan 1 84	2A	100	98	97	90	93	70	42	.025	.0217	86.7
Kentucky													
UAPSP													
Morehead	Jan 1 83	Jan 1 84	2A	100	98	94	84	103	110	50	.053	.0547	102.7
Maine													
NADP													
Greenville Station	Jan 4 83	Jan 3 84	2B	100	98	87	87	89	45	2	.016	.0229	145.3
UAPSP													
Winterport	Jan 1 83	Jan 1 84	2A	100	100	97	91	93	96	71	.018	.0277	157.8
Massachusetts													
NADP													
East	Jan 4 83	Jan 3 84	3	100	97	94	94	97	46	2	.029	.0385	133.7
UAPSP													
Turners Falls	Jan 1 83	Jan 1 84	2A	100	100	98	94	95	90	58	.018	.0256	145.6
Michigan													
NADP													
Douglas Lake	Jan 4 83	Jan 3 84	1	100	90	81	81	95	39		.036	.0325	89.5
Kellogg	Jan 4 83	Jan 3 84	2A	99	87	79	78	84	38		.028	.0266	94.6
Wellston	Jan 4 83	Jan 3 84	2A	100	97	94	94	88	46		.028	.0276	97.0
UAPSP													
Gaylord	Jan 1 83	Jan 1 84	2A	100	95	95	84	91	93	67	.017	.0153	90.1
Minnesota													
NADP													
Fernberg	Jan 4 33	Jan 3 84	1	100	94	87	87	84	41		.033	.0290	88.9
Marcell	Jan 4 83	Jan 3 84	2B	100	90	77	76	92	37		.046	.0321	70.1
APIOS-D													
Fernberg	Jan 1 83	Jan 1 84	1	100	89	95	75	76	57	5	.047	.0389	83.3
Mississippi													
NADP													
Meridian	Jan 4 83	Jan 3 84	3	100	89	83	81	87	38		.059	.1047	177.3
UAPSP													
Clinton	Jan 1 83	Jan 1 84	2A	100	100	98	94	97	105	48	.046	.0869	189.0
Missouri													
NADP													
Ashland	Jan 4 83	Jan 3 84	2	100	99	90	90	94	45		.048	.0500	103.5
University Forest	Jan 4 83	Jan 3 84	2	100	98	85	84	96	41		.108	.1238	114.2
Montana													
NADP													
Glacier Nat Park	Jan 4 83	Jan 3 84		98	95	85	87	86	41	1	.024	.0201	83.2
Nebraska													
NADP													

Potassium

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	K Dep g/m2	Total Precip cm
Head	Dec 29 82	Jan 3 84	2	100	95	81	78	99	36		.043	.0281	66.1
New Hampshire													
NADP													
Hubbard Brook	Jan 4 83	Jan 3 84	1	100	91	88	88	95	45		.020	.0265	130.8
New Mexico													
NADP													
Bandelier	Jan 4 83	Jan 3 84		100	91	85	80	91	36		.130	.0482	37.1
CUBA	Jan 4 83	Jan 3 84		100	84	83	82	88	36		.031	.0107	34.8
New York													
NADP													
Aurora	Dec 29 82	Jan 3 84	2A	100	100	96	96	89	48		.031	.0247	79.4
Bennett Bridge	Jan 4 83	Jan 3 84	2A	98	97	94	98	89	46		.029	.0420	143.8
Chautauqua	Jan 4 83	Jan 3 84	2A	100	97	87	86	94	44		.038	.0393	104.5
Huntington	Jan 4 83	Jan 3 84	2B	100	90	84	85	99	44		.022	.0260	118.3
Jasper	Jan 4 83	Jan 3 84	2A	100	97	90	92	95	45		.016	.0109	67.2
Knobit	Jan 4 83	Jan 3 84	2A	100	82	77	82	94	37		.019	.0229	121.3
Stilwell Lake	Jan 4 83	Jan 3 84	2B	100	90	87	86	93	43		.023	.0416	184.9
MAP3s/PCN													
Brookhaven	Jan 1 83	Jan 1 84	2B	99	99	97	90	105	69	62	.018	.0271	152.2
Ithaca	Jan 1 83	Jan 1 84	2A	99	96	98	92	93	71	69	.019	.0210	108.5
Whiteface	Jan 1 83	Jan 1 84	1	99	97	95	86	111	102	95	.046	.0549	119.8
UAPSP													
Big Moose	Jan 1 83	Jan 1 84	1	100	98	93	85	95	146	75	.030	.0430	143.9
North Carolina													
NADP													
Clinton Station	Jan 4 83	Jan 3 84	2A	98	97	87	87	97	40		.035	.0446	127.2
Finley (A)	Jan 4 83	Jan 3 84	2A	100	81	87	86	89	42		.055	.0663	119.7
Lewiston	Jan 4 83	Jan 3 84	2A	100	94	93	91	95	42		.044	.0463	105.1
Piedmont Station	Jan 4 83	Jan 3 84	2A	100	100	92	92	97	44		.066	.0717	109.4
UAPSP													
Raleigh	Jan 1 83	Jan 1 84	3	100	95	98	92	87	79	44	.035	.0443	126.7
Ohio													
NADP													
Caldwell	Jan 4 83	Jan 3 84	2B	100	95	92	92	100	47	1	.038	.0394	103.4
Delaware	Jan 4 83	Jan 3 84	2A	100	100	96	96	100	48	1	.028	.0244	87.2
Wooster	Jan 4 83	Jan 3 84	3	100	93	87	86	98	44		.025	.0217	86.0
UAPSP													
McArthur	Jan 1 83	Jan 1 84	2A	100	99	96	91	98	118	78	.023	.0224	98.4
Zanesville	Jan 1 83	Jan 1 84	3	100	99	97	92	102	113	75	.021	.0212	100.7
Oklahoma													
NADP													
Clayton Lake	Jan 1 83	Jan 3 84		92	95	78	84	96	38		.048	.0479	99.4
Oregon													
NADP													
Lost Creek Dam	Jan 4 83	Jan 1 84		93	90	79	85	101	34		.014	.0131	96.7
Pennsylvania													
NADP													
Kane	Jan 4 83	Jan 3 84	2A	100	86	83	82	93	42		.031	.0394	128.0
Leading Ridge	Jan 4 83	Jan 3 84	1	100	98	94	94	90	46		.035	.0411	115.9
UAPSP													

Potassium

State / Network / Site Name	Period Summarized First Date	Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	K Dep g/m2	Total Precip cm
Scranton	Jan 1 83	Jan 1 84	2A	100	99	95	83	86	94	64	.015	.0169	111.6
South Carolina													
NADP													
Clemson	Jan 4 83	Jan 3 84	3	100	95	88	88	97	43		.027	.0327	119.7
South Dakota													
UAPSP													
Brookings	Jan 1 83	Jan 1 84	2A	100	87	98	88	99	52	27	.033	.0193	58.6
Tennessee													
NADP													
Walker Branch	Jan 4 83	Jan 3 84	2A	100	97	90	90	102	43		.031	.0356	115.3
MAP3s/PCN													
Oak Ridge	Jan 1 83	Jan 1 84	2B	99	100	99	100	108	60	58	.016	.0180	115.2
UAPSP													
Alamo	Jan 1 83	Jan 1 84	2B	100	97	99	90	96	43	26	.023	.0210	93.0
Texas													
NADP													
Forest Seed Ctr	Jan 4 83	Jan 3 84	2	100	80	88	85	98	39		.065	.0852	131.8
K-Bar	Jan 4 83	Jan 3 84	2	100	98	92	88	101	29		.049	.0140	28.6
Longview	Jan 4 83	Jan 3 84	2	100	98	83	80	99	37		.048	.0534	111.4
UAPSP													
Marshall	Jan 1 83	Jan 1 84	2A	100	97	98	91	99	64	28	.033	.0346	105.8
Vermont													
NADP													
Bennington	Jan 4 83	Jan 3 84	2A	100	96	92	94	89	47	1	.027	.0322	119.1
UAPSP													
Underhill Center	Jan 1 83	Jan 1 84	2A	100	99	95	89	95	139	105	.011	.0172	157.7
Virginia													
MAP3s/PCN													
Virginia	Jan 1 83	Jan 1 84	2A	99	86	96	82	105	50	40	.021	.0297	142.7
West Virginia													
NADP													
Parsons	Jan 4 83	Jan 3 84	2A	100	99	96	96	91	49		.029	.0361	122.9
Wisconsin													
NADP													
Lake Dubay	Jan 4 83	Jan 3 84	2	99	96	90	89	93	42		.040	.0259	64.1
Spooner	Jan 4 83	Jan 3 84	1	100	97	87	85	86	41		.053	.0486	91.3
Trout Lake	Jan 4 83	Jan 3 84	1	100	84	81	82	95	40	1	.026	.0215	83.8
WISC													
Legend Lake	Jan 1 83	Jan 1 84		96	95	91	78	100	73	65	.052	.0460	88.4
Round Lake	Jan 1 83	Jan 1 84	1	100	98	93	81	89	102	101	.090	.0779	86.6
Wyoming													
NADP													
Newcastle	Jan 4 83	Jan 3 84		100	100	92	91	87	41	1	.059	.0203	34.3
American Samoa													
NADP													
American Samoa	Jan 4 83	Jan 3 84		100	98	94	94	100	48		.113	.1988	176.0
Alberta													
CANSAP													
Fort McMurray	Jan 1 83	Jan 1 84		100	96	84	83	76	10		.230	.0883	38.3
British Columbia													

Potassium

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	K Dep g/m2	Total Precip cm
CANSAP													
Kelowna	Dec 31 82	Jan 1 84		100	89	84	83	75	10	4	.076	.0354	46.9
Port Hardy	Dec 31 82	Jan 1 84		100	100	100	100	79	12	1	.087	.1569	180.4
Revelstoke	Jan 1 83	Jan 1 84		100	100	100	100	87	12		.129	.1383	107.4
Vancouver	Dec 31 82	Jan 1 84		100	100	100	100	79	12		.073	.1082	148.3
New Brunswick													
CANSAP													
Acadia Fes	Jan 1 83	Jan 1 84	3	100	100	100	100	92	12	1	.037	.0448	120.8
Newfoundland													
CANSAP													
Stephenville	Jan 1 83	Jan 1 84	3	100	86	83	83	88	10		.063	.0837	133.9
Nova Scotia													
CANSAP													
Kejimkujik (a)	Dec 31 82	Jan 1 84	2A	100	100	100	100	98	12	2	.050	.0672	134.0
Truro	Jan 1 83	Jan 1 84	3	100	93	92	92	86	11	3	.037	.0462	123.6
Ontario													
CANSAP													
Dorset (a)	Dec 31 82	Jan 3 84	1	100	100	100	100	86	12	4	.033	.0347	106.5
Mount Forest (a)	Jan 3 83	Jan 3 84	3	100	100	100	100	84	12		.125	.1239	99.0
APIOS-C													
Colchester	Jan 4 83	Jan 3 84	2A	100	90	85	85	84	11	2	.039	.0329	85.3
Coldwater	Jan 4 83	Jan 3 84	1	100	77	77	77	96	10	1	.062	.0514	83.6
Dorion	Jan 4 83	Jan 3 84	1	100	100	100	100	84	13	4	.029	.0227	77.7
Dorset (c)	Jan 4 83	Jan 3 84	1	100	91	92	92	89	12	1	.027	.0260	96.7
Gowganda	Jan 4 83	Jan 3 84	2A	100	86	85	85	79	11	1	.037	.0276	73.8
Huron Park	Jan 4 83	Jan 3 84	2A	100	93	92	92	80	12	1	.037	.0292	79.0
Killarney	Jan 5 83	Jan 3 84	2A	100	91	92	92	78	12	1	.040	.0371	92.7
Merlin	Jan 4 83	Jan 3 84	2A	100	88	92	92	79	12		.057	.0480	84.0
Palmerston	Jan 4 83	Jan 4 84	2A	100	91	92	92	78	12	1	.049	.0370	75.8
Port Stanley	Jan 4 83	Jan 3 84	2B	100	96	92	92	75	12	1	.058	.0549	94.4
Shallow Lake	Jan 4 83	Jan 3 84	2A	100	88	94	92	81	12	2	.034	.0337	98.1
Waterloo	Jan 4 83	Jan 3 84	2A	100	86	85	85	82	11	1	.069	.0628	90.7
Wilberforce	Jan 4 83	Jan 3 84	1	100	92	92	92	82	12		.031	.0297	97.3
Quebec													
CANSAP													
Maniwaki	Jan 1 83	Jan 1 84	2B	100	85	83	83	80	10		.115	.1076	93.7

Sodium

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	NA Dep g/m2	Total Precip cm
Alabama													
UAPSP													
Selma	Jan 1 83	Jan 1 84	2A	100	100	98	94	96	98	14	.150	.2658	177.0
Arizona													
NADP													
Grand Canyon	Jan 4 83	Jan 3 84		100	100	88	86	89	36		.086	.0444	51.8
Organ Pipe Mon.	Jan 4 83	Jan 3 84		100	99	90	84	94	26		.247	.1160	46.9
Arkansas													
NADP													
Fayetteville	Jan 4 83	Jan 3 84	2B	98	98	90	91	88	40		.129	.1165	90.6
Warren 2WSW	Jan 4 83	Jan 3 84	2	100	94	87	88	99	42		.139	.1844	132.5
California													
NADP													
Davis Site	Jan 4 83	Jan 3 84		100	100	92	87	98	27		.314	.2886	91.8
Hopland (Ukiah)	Jan 4 83	Jan 3 84		100	100	98	97	99	34		.393	.7184	182.8
Sequoia Nat. Park	Jan 4 83	Jan 3 84		98	93	83	78	101	28		.095	.1417	148.6
Tanbark Flat	Jan 4 83	Jan 3 84		100	99	85	77	92	27		.287	.3766	131.3
Yosemite	Jan 4 83	Dec 30 83		100	90	89	85	99	33		.088	.2024	230.1
Colorado													
NADP													
Manitou	Jan 4 83	Jan 3 84		100	93	85	83	81	38		.070	.0344	48.8
Mesa Verde	Jan 4 83	Jan 3 84		100	94	79	77	81	36		.061	.0348	57.4
Pawnee	Jan 4 83	Jan 3 84	2A	100	97	87	83	85	34		.110	.0409	37.3
Rocky Mt. Nat Park	Jan 4 83	Dec 27 83		100	94	96	94	93	46		.106	.0479	45.0
Sand Spring	Jan 4 83	Jan 3 84		100	83	87	86	96	44		.083	.0355	42.8
UAPSP													
Yampa	Jan 1 83	Jan 1 84	1	100	93	94	85	86	105	36	.055	.0219	39.8
Delaware													
MAP3s/PCN													
Lewes	Jan 1 83	Jan 1 84	2A	99	100	96	87	108	65		1.671	2.4218	144.9
Florida													
NADP													
Bradford Forest	Jan 4 83	Jan 3 84	2A	98	92	82	83	94	40		.284	.4512	158.7
Georgia													
NADP													
Georgia Station	Jan 4 83	Jan 3 84	2A	100	91	81	80	96	40		.208	.2557	122.7
UAPSP													
Uvalda	Jan 1 83	Jan 1 84	2A	100	99	98	93	99	86	5	.171	.2098	122.7
Hawaii													
NADP													
Mauna Loa	Jan 4 83	Jan 3 84		100	100	94	83	96	15		.091	.0139	15.2
Illinois													
NADP													
Argonne	Jan 4 83	Jan 3 84	3	100	89	83	84	102	41		.072	.0807	112.7
Dixon Springs	Jan 4 83	Jan 3 84	2B	100	100	87	85	89	40		.096	.1412	146.6
NIARC	Jan 4 83	Jan 3 84	1	100	96	77	77	97	40		.063	.0636	100.1
Salem	Dec 28 82	Jan 3 84	1	100	100	91	88	106	36		.065	.0664	102.6
Southern Ill U	Jan 4 83	Jan 3 84	2B	100	100	83	82	100	42		.103	.1203	117.0
Indiana													
NADP													

Sodium

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	NA Dep g/m2	Total Precip cm
Indiana Dunes	Jan 4 83	Jan 3 84	3	98	99	90	92	89	46		.080	.0746	93.5
Purdue U Ag Farm	Jan 4 83	Jan 3 84	2	100	96	92	91	97	43		.066	.0566	85.2
UAPSP													
Fort Wayne	Jan 1 83	Jan 1 84	2A	100	98	95	81	91	88	37	.050	.0440	88.0
Rockport	Jan 1 83	Jan 1 84	3	100	100	99	96	93	82	28	.063	.0785	124.5
Kansas													
NADP													
Konza Prairie	Jan 4 83	Jan 3 84	2	100	95	87	87	97	39		.084	.0635	76.0
UAPSP													
Lancaster	Jan 1 83	Jan 1 84	2A	100	98	97	90	93	70	35	.048	.0412	86.7
Kentucky													
UAPSP													
Morehead	Jan 1 83	Jan 1 84	2A	100	98	94	84	103	110	38	.064	.0653	102.7
Maine													
NADP													
Greenville Station	Jan 4 83	Jan 3 84	2B	100	98	87	87	89	45		.062	.0896	145.3
UAPSP													
Winterport	Jan 1 83	Jan 1 84	2A	100	100	97	91	93	96	17	.350	.5515	157.8
Massachusetts													
NADP													
East	Jan 4 83	Jan 3 84	3	100	97	94	94	97	46		.509	.6809	133.7
UAPSP													
Turners Falls	Jan 1 83	Jan 1 84	2A	100	100	98	94	95	90	8	.187	.2717	145.6
Michigan													
NADP													
Douglas Lake	Jan 4 83	Jan 3 84	1	100	90	81	81	95	39		.047	.0422	89.5
Kellogg	Jan 4 83	Jan 3 84	2A	99	87	79	78	84	38		.068	.0643	94.6
Wellston	Jan 4 83	Jan 3 84	2A	100	97	94	94	88	46		.051	.0491	97.0
UAPSP													
Gaylord	Jan 1 83	Jan 1 84	2A	100	95	95	84	91	93	63	.021	.0186	90.1
Minnesota													
NADP													
Fernberg	Jan 4 83	Jan 3 84	1	100	94	87	87	84	41		.046	.0411	88.9
Marcell	Jan 4 83	Jan 3 84	2B	100	90	77	76	92	37		.065	.0456	70.1
Mississippi													
NADP													
Meridian	Jan 4 83	Jan 3 84	3	100	89	83	81	87	38		.194	.3436	177.3
UAPSP													
Clinton	Jan 1 83	Jan 1 84	2A	100	100	98	94	97	105	13	.152	.2877	189.0
Missouri													
NADP													
Ashland	Jan 4 83	Jan 3 84	2	100	99	90	90	94	45		.102	.1054	103.5
University Forest	Jan 4 83	Jan 3 84	2	100	98	85	84	96	41		.112	.1281	114.2
Montana													
NADP													
Glacier Nat Park	Jan 4 83	Jan 3 84		98	55	85	87	86	41	1	.065	.0540	83.2
Nebraska													
NADP													
Mead	Dec 29 82	Jan 3 84	2	100	95	81	78	99	36		.100	.0659	66.1
New Hampshire													

Sodium

State / Network / Site Name	Period Summarized First Date	Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	NA Dep g/m2	Total Precip cm
NADP													
Hubbard Brook	Jan 4 83	Jan 3 84	1	100	91	88	88	95	45		.075	.0986	130.8
New Mexico													
NADP													
Bandelier	Jan 4 83	Jan 3 84		100	91	85	80	91	36		.134	.0495	37.1
CUBA	Jan 4 83	Jan 3 84		100	84	83	82	88	36		.104	.0362	34.8
New York													
NADP													
Aurora	Dec 29 82	Jan 3 84	2A	100	100	96	96	89	48		.114	.0902	79.4
Bennett Bridge	Jan 4 83	Jan 3 84	2A	98	97	94	98	89	46		.073	.1056	143.8
Chautauqua	Jan 4 83	Jan 3 84	2A	100	97	87	86	94	44		.072	.0750	104.5
Huntington	Jan 4 83	Jan 3 84	2B	100	90	84	85	99	44		.079	.0931	118.3
Jasper	Jan 4 83	Jan 3 84	2A	100	97	90	92	95	45		.049	.0332	67.2
Knobit	Jan 4 83	Jan 3 84	2A	100	82	77	82	94	37		.081	.0977	121.3
Stilwell Lake	Jan 4 83	Jan 3 84	2B	100	90	87	86	93	43		.271	.5015	184.9
MAP3s/PCN													
Brookhaven	Jan 1 83	Jan 1 84	2B	99	99	97	90	105	69		.755	1.1500	152.2
Ithaca	Jan 1 83	Jan 1 84	2A	99	96	98	92	93	71	12	.032	.0350	108.5
Whiteface	Jan 1 83	Jan 1 84	1	99	98	96	89	111	105	21	.044	.0528	119.8
UAPSP													
Big Moose	Jan 1 83	Jan 1 84	1	100	98	93	85	95	146	54	.041	.0592	143.9
North Carolina													
NADP													
Clinton Station	Jan 4 83	Jan 3 84	2A	98	97	87	87	97	40		.382	.4863	127.2
Finley (A)	Jan 4 83	Jan 3 84	2A	100	81	87	86	89	42		.270	.3235	119.7
Lewiston	Jan 4 83	Jan 3 84	2A	100	94	93	91	95	42		.456	.4793	105.1
Piedmont Station	Jan 4 83	Jan 3 84	2A	100	100	92	92	97	44		.211	.2307	109.4
UAPSP													
Raleigh	Jan 1 83	Jan 1 84	3	100	95	98	92	87	79	13	.266	.3366	126.7
Ohio													
NADP													
Caldwell	Jan 4 83	Jan 3 84	2B	100	95	92	92	100	47		.065	.0671	103.4
Delaware	Jan 4 83	Jan 3 84	2A	100	100	96	96	100	48		.061	.0535	87.2
Wooster	Jan 4 83	Jan 3 84	3	100	93	87	86	98	44		.061	.0525	86.0
UAPSP													
McArthur	Jan 1 83	Jan 1 84	2A	100	99	96	91	98	118	58	.042	.0414	98.4
Zanesville	Jan 1 83	Jan 1 84	3	100	99	97	92	102	113	41	.050	.0502	100.7
Oklahoma													
NADP													
Clayton Lake	Jan 1 83	Jan 3 84		92	95	78	84	96	38		.201	.1995	99.4
Oregon													
NADP													
Lost Creek Dam	Jan 4 83	Jan 1 84		93	90	79	85	101	34		.072	.0695	96.7
Pennsylvania													
NADP													
Kane	Jan 4 83	Jan 3 84	2A	100	86	83	82	93	42		.065	.0830	128.0
Leading Ridge	Jan 4 83	Jan 3 84	1	100	98	94	94	90	46		.067	.0772	115.9
MAP3s/PCN													
Penn State	Jan 1 83	Jan 1 84	2B	99	99	93	76	109	66	7	.057	.0598	105.2
UAPSP													

Sodium

State / Network / Site Name	Period Summarized First Date	Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	NA Dep g/m2	Total Precip cm
Scranton	Jan 1 83	Jan 1 84	2A	100	99	95	83	86	94	42	.064	.0717	111.6
South Carolina													
NADP													
Clemson	Jan 4 83	Jan 3 84	3	100	95	88	88	97	43		.153	.1837	119.7
South Dakota													
UAPSP													
Brookings	Jan 1 83	Jan 1 84	2A	100	87	96	88	99	52	27	.026	.0151	58.6
Tennessee													
NADP													
Walker Branch	Jan 4 83	Jan 3 84	2A	100	97	90	90	102	43		.073	.0842	115.3
NAP3s/PCN													
Oak Ridge	Jan 1 83	Jan 1 84	2B	99	100	99	100	108	60	2	.067	.0769	115.2
UAPSP													
Alamo	Jan 1 83	Jan 1 84	2B	100	97	99	90	96	43	12	.070	.0655	93.0
Texas													
NADP													
Forest Seed Ctr	Jan 4 83	Jan 3 84	2	100	80	88	85	98	39		.295	.3893	131.8
K-Bar	Jan 4 83	Jan 3 84	2	100	98	92	88	101	29		.182	.0520	28.6
Longview	Jan 4 83	Jan 3 84	2	100	98	83	80	99	37		.206	.2292	111.4
UAPSP													
Marshall	Jan 1 83	Jan 1 84	2A	100	97	98	91	99	64	7	.167	.1763	105.8
Vermont													
NADP													
Bennington	Jan 4 83	Jan 3 84	2A	100	96	92	94	89	47		.091	.1089	119.1
UAPSP													
Underhill Center	Jan 1 83	Jan 1 84	2A	100	99	95	89	95	139	87	.017	.0269	157.7
Virginia													
NAP3s/PCN													
Virginia	Jan 1 83	Jan 1 84	2A	99	91	96	84	105	51	3	.124	.1769	142.7
West Virginia													
NADP													
Parsons	Jan 4 83	Jan 3 84	2A	100	99	96	96	91	49		.046	.0564	122.9
Wisconsin													
NADP													
Lake Dubay	Jan 4 83	Jan 3 84	2	99	96	90	89	93	42		.066	.0426	64.1
Spooner	Jan 4 83	Jan 3 84	1	100	97	87	85	86	41		.055	.0502	91.3
Trout Lake	Jan 4 83	Jan 3 84	1	100	84	81	82	95	40		.050	.0415	83.8
WISC													
Legend Lake	Jan 1 83	Jan 1 84		96	95	91	78	100	73		.119	.1048	88.4
Round Lake	Jan 1 83	Jan 1 84	1	100	98	93	81	89	102	4	.057	.0495	86.6
Wyoming													
NADP													
Newcastle	Jan 4 83	Jan 3 84		100	100	92	91	87	41		.102	.0351	34.3
American Samoa													
NADP													
American Samoa	Jan 4 83	Jan 3 84		100	98	94	94	100	48		2.503	4.4059	176.0
Alberta													
CANSAP													
Edson	Dec 31 82	Jan 1 84		98	79	89	92	77	11		.418	.1867	44.7
Fort McMurray	Jan 1 83	Jan 1 84		100	96	84	83	76	10		.279	.1069	38.3

Sodium

State / Network / Site Name	Period Summarized First Date	Period Summarized Last Date	Site Rep	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N BDL	Wtd Mean mg/l	NA Dep g/m2	Total Precip cm
British Columbia													
CANSAP													
Kelowna	Dec 31 82	Jan 1 84		100	82	75	75	75	9	1	.444	.2084	46.9
Port Hardy	Dec 31 82	Jan 1 84		100	100	100	100	79	12		1.393	2.5137	180.4
Revelstoke	Jan 1 83	Jan 1 84		100	100	100	100	87	12		.122	.1316	107.4
Vancouver	Dec 31 82	Jan 1 84		100	100	100	100	79	12		.488	.7230	148.3
New Brunswick													
CANSAP													
Acadia Fes	Jan 1 83	Jan 1 84	3	100	100	100	100	92	12	2	.202	.2444	120.8
Newfoundland													
CANSAP													
Stephenville	Jan 1 83	Jan 1 84	3	100	86	83	83	88	10		.643	.8613	133.9
Nova Scotia													
CANSAP													
Kejimkujik (a)	Dec 31 82	Jan 1 84	2A	100	100	100	100	98	12		.656	.8785	134.0
Truro	Jan 1 83	Jan 1 84	3	100	93	92	92	86	11	1	.596	.7365	123.6
Ontario													
CANSAP													
Dorset (a)	Dec 31 82	Jan 3 84	1	100	100	100	100	86	12	2	.049	.0521	106.5
Mount Forest (a)	Jan 3 83	Jan 3 84	3	100	100	100	100	84	12		.307	.3037	99.0
APIOS-C													
Coldwater	Jan 4 83	Jan 3 84	1	100	93	92	92	91	12		.072	.0602	83.6
Dorion	Jan 4 83	Jan 3 84	1	100	95	92	92	85	12	1	.045	.0353	77.7
Dorset (c)	Jan 4 83	Jan 3 84	1	100	100	100	100	89	13		.042	.0404	96.7
Gowganda	Jan 4 83	Jan 3 84	2A	100	90	92	92	84	12	1	.080	.0588	73.8
Huron Park	Jan 4 83	Jan 3 84	2A	100	93	92	92	80	12		.056	.0442	79.0
Killarney	Jan 5 83	Jan 3 84	2A	100	87	85	85	78	11	1	.036	.0338	92.7
Mattawa	Jan 4 83	Jan 4 84	2A	100	79	84	85	81	11	1	.040	.0379	95.0
Merlin	Jan 4 83	Jan 3 84	2A	100	88	92	92	79	12		.118	.0995	84.0
Palmerston	Jan 4 83	Jan 4 84	2A	100	91	92	92	78	12		.082	.0623	75.8
Port Stanley	Jan 4 83	Jan 3 84	2B	100	96	92	92	75	12		.078	.0734	94.4
Shallow Lake	Jan 4 83	Jan 3 84	2A	100	88	94	92	81	12		.051	.0503	98.1
Smith's Falls	Jan 4 83	Jan 3 84	3	100	91	92	92	84	12		.081	.0670	82.8
Waterloo	Jan 4 83	Jan 3 84	2A	100	94	92	92	81	12		.082	.0746	90.7
Wilberforce	Jan 4 83	Jan 3 84	1	100	91	92	92	81	12	1	.045	.0435	97.3
Quebec													
CANSAP													
Maniwaki	Jan 1 83	Jan 1 84	2B	100	85	83	83	80	10		.162	.1522	93.7
Sept Isles	Jan 1 83	Jan 1 84	3	100	89	92	92	75	11		.473	.6397	135.2

APPENDIX F

CONCENTRATION DISTRIBUTION ANNUAL SUMMARIES FOR 1983

F-1

COLUMN HEADING DEFINITIONS FOR ANNUAL CONCENTRATION SUMMARY TABLE

Column	Column Head	Explanation
1	STATE	The name of the State or Province in which the sites are located appears as a group heading offset to the left.
2	NETWORK	The network which operates the sites listed below.
3	SITE NAME	The site name used by the network. Appendix A gives other information concerning the site location, operation, and history.
4	SITE REP	Site representativeness code. It has the following values: REP — Meaning 1 — regionally representative 2A — potentially regionally representative 2 — regional representativeness in question 2B — potentially regionally unrepresentative 3 — regionally unrepresentative blank — representativeness has not been determined
5-18		All refer only to sampling periods when precipitation occurred and an acceptable chemical analysis is available for the ion species being summarized.
5	N	Number of valid samples available for statistical summary.
6	N BDL	Number below detection limit. Number of values in the statistical summary that are reported as being below the detection limit. For percentile summary, the actual detection limit reported is used. For mean and standard deviation calculations, one-half of the actual detection limit reported is used.
7	WTD MEAN	Precipitation weighted mean. Weighted mean of valid data values is calculated using precipitation depth as weight. For pH, the calculation is completed in terms of hydrogen ion and then converted to pH units.
8	GEOMETRIC MEAN	Geometric mean. Obtained by calculating the arithmetic average of the natural logarithms of the valid data values and then exponentiating the result.
9	GEOMETRIC SD	Standard deviation of the natural logarithms of the valid data values.
10	ARITHMETIC MEAN	Arithmetic mean of the valid data values.
11	ARITHMETIC SD	Standard deviation of the valid data values.
12	MIN	Minimum valid data value.
13	25%	Twenty-fifth percentile of the valid data values.
14	50%	Median or fiftieth percentile of the valid data values.
15	75%	Seventy-fifth percentile of the valid data values.
16	MAX	Maximum valid data value.

COLUMN HEADING DEFINITIONS FOR ANNUAL CONCENTRATION SUMMARY TABLE

Column	Column Head	Explanation
17	K-S D-Statistic Gau	Value of Lilliefors D statistic (Kolmogorov-Smirnov statistic) for testing normality of the distribution of the valid component samples. (A * next to the value indicates significance at the .05 level)
18	K-S D-Statistic Log	Value of Lilliefors D statistic for testing log-normality of the distribution of the valid component samples. (A * next to the value indicates significance at the .05 level)

pH

State / Network / Site Name	Site Rep	N	Wtd Mean	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Percentiles Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
Alabama														
UAPSP														
Selma	2A	103	4.63	4.49	.09	4.51	.38	3.43	4.27	4.5	4.8	5.2	.079	.097*
Arizona														
NADP														
Grand Canyon		36	5.25	5.39	.09	5.41	.46	4.24	5.12	5.4	5.8	6.4	.073	.061
Organ Pipe Mon.		26	5.22	5.65	.10	5.68	.57	4.66	5.23	5.7	6.2	6.7	.091	.101
Arkansas														
NADP														
Fayetteville	2B	40	4.96	5.14	.10	5.17	.51	4.29	4.85	5.0	5.5	6.3	.181*	.166*
Warren 2WSW	2	43	4.84	4.88	.12	4.91	.61	3.86	4.47	4.8	5.2	7.3	.129	.113
California														
NADP														
Davis Site		30	5.82	5.80	.07	5.82	.37	4.72	5.65	5.9	6.0	6.4	.132	.146
Hopland (Ukiah)		34	5.46	5.44	.05	5.44	.25	4.88	5.27	5.5	5.6	6.0	.103	.098
Sequoia Nat. Park		29	5.44	5.50	.09	5.52	.48	4.44	5.30	5.5	5.8	6.6	.107	.121
Tanbark Flat		28	5.03	4.80	.11	4.83	.51	3.57	4.49	4.9	5.2	5.6	.128	.131
Yosemite		33	5.47	5.36	.07	5.37	.35	4.55	5.24	5.4	5.6	5.9	.145	.160*
Colorado														
NADP														
Manitou		42	4.97	5.27	.13	5.32	.71	4.18	4.81	5.2	5.6	7.4	.169*	.145*
Mesa Verde		36	4.88	5.30	.15	5.35	.80	3.84	4.75	5.2	6.0	6.9	.095	.093
Pawnee	2A	35	5.48	5.64	.08	5.66	.45	4.94	5.42	5.6	6.0	6.8	.086	.074
Rocky Mt. Nat Park		46	5.08	5.18	.12	5.22	.64	4.04	4.72	5.3	5.7	6.8	.079	.088
Sand Spring		46	5.05	5.32	.12	5.36	.64	4.01	4.92	5.1	5.8	6.9	.154*	.137*
UAPSP														
Yampa	1	117	4.92	5.09	.08	5.11	.40	4.21	4.80	5.1	5.4	6.2	.065	.050
Delaware														
MAP3s/PCN														
Lewes	2A	65	4.33	4.42	.10	4.44	.44	3.64	4.06	4.4	4.8	5.3	.078	.087
Florida														
NADP														
Bradford Forest	2A	40	4.72	4.74	.10	4.76	.45	3.86	4.46	4.8	5.0	5.9	.070	.080
Georgia														
NADP														
Georgia Station	2A	40	4.81	4.83	.12	4.87	.63	4.00	4.45	4.7	5.2	6.8	.160*	.139
UAPSP														
Uvalda	2A	87	4.68	4.68	.08	4.70	.35	3.80	4.44	4.7	4.9	5.3	.066	.078
Hawaii														
NADP														
Mauna Loa		16	5.07	5.68	.12	5.72	.70	4.37	5.27	5.8	6.0	7.2	.135	.155
Illinois														
NADP														
Argonne	3	42	4.36	4.48	.11	4.51	.55	3.60	4.24	4.4	4.6	6.3	.230*	.203*
Bondville	2A	43	4.31	4.58	.14	4.63	.74	3.48	4.25	4.4	4.6	6.6	.300*	.271*
Dixon Springs	2B	43	4.48	4.53	.10	4.56	.50	3.88	4.25	4.5	4.7	6.2	.208*	.183*
NIARC	1	42	4.47	4.78	.13	4.82	.66	4.01	4.33	4.6	5.1	6.5	.165*	.151*
Salem	1	37	4.42	4.51	.12	4.54	.61	3.45	4.33	4.4	4.6	7.1	.255*	.233*
Southern Ill U	2B	43	4.53	4.56	.09	4.58	.43	3.81	4.33	4.5	4.8	6.1	.135	.114
Indiana														

pH

State / Network / Site Name	Site Rep	N	Wtd Mean	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
NADP														
Indiana Dunes	3	47	4.40	4.63	.13	4.67	.65	4.10	4.21	4.4	4.7	7.0	.225*	.197*
Purdue U Ag Farm	2	44	4.27	4.14	.13	4.17	.48	2.78	3.98	4.2	4.5	4.9	.151*	.175*
UAPSP														
Fort Wayne	2A	92	4.34	4.36	.08	4.37	.37	3.72	4.17	4.3	4.5	6.2	.152*	.131*
Rockport	3	85	4.31	4.28	.08	4.29	.34	3.50	4.11	4.3	4.5	6.2	.114*	.099*
Kansas														
NADP														
Konza Prairie	2	39	4.88	5.17	.10	5.20	.55	4.38	4.71	5.1	5.5	6.8	.109	.113
UAPSP														
Lancaster	2A	70	4.72	4.88	.11	4.91	.54	3.89	4.47	4.8	5.1	6.3	.133*	.110*
Kentucky														
UAPSP														
Morehead	2A	125	4.25	4.30	.10	4.32	.43	3.32	4.07	4.3	4.6	6.9	.074	.061
Louisiana														
NADP														
Iberia	2	37	4.84	5.06	.11	5.10	.60	4.23	4.71	5.0	5.3	6.9	.157*	.133
Maine														
NADP														
Caribou (a)	2B	41	4.65	4.85	.12	4.89	.62	4.02	4.48	4.8	5.3	7.1	.170*	.144*
Greenville Station	2B	46	4.74	4.82	.09	4.84	.46	4.14	4.43	4.7	5.3	5.8	.113	.102
UAPSP														
Winterport	2A	102	4.64	4.50	.10	4.52	.44	3.65	4.19	4.5	4.9	6.1	.056	.056
Massachusetts														
NADP														
East	3	47	4.39	4.31	.11	4.33	.47	3.15	4.10	4.4	4.7	5.9	.131*	.130*
UAPSP														
Turners Falls	2A	93	4.37	4.42	.13	4.46	.70	3.46	4.09	4.4	4.7	9.9	.147*	.088
Michigan														
NADP														
Douglas Lake	1	40	4.48	4.52	.08	4.53	.36	3.58	4.32	4.5	4.6	5.5	.159*	.146*
Kellogg	2A	39	4.31	4.33	.10	4.35	.46	3.79	4.10	4.3	4.5	6.5	.185*	.159*
Wellston	2A	46	4.40	4.46	.08	4.48	.39	3.83	4.27	4.4	4.6	6.0	.155*	.137*
UAPSP														
Gaylord	2A	100	4.40	4.50	.09	4.51	.40	3.59	4.28	4.4	4.8	6.0	.102*	.088
Minnesota														
NADP														
Fernberg	1	42	5.00	5.19	.10	5.22	.56	4.27	4.84	5.1	5.6	6.6	.158*	.140*
Marcell	2B	38	4.89	5.16	.11	5.19	.57	3.95	4.75	5.2	5.6	6.5	.133	.121
Mississippi														
NADP														
Meridian	3	38	4.82	4.84	.10	4.87	.50	4.06	4.45	4.8	5.2	6.2	.121	.109
UAPSP														
Clinton	2A	110	4.63	4.63	.10	4.65	.47	3.71	4.40	4.7	4.8	6.5	.112*	.094*
Missouri														
NADP														
Ashland	2	45	4.61	4.81	.11	4.84	.54	3.83	4.43	4.8	5.2	6.4	.098	.084
University Forest	2	42	4.69	4.69	.10	4.71	.48	3.91	4.37	4.7	4.9	6.1	.147*	.126
Montana														
NADP														

pH

State / Network / Site Name	Site Rep	N	Wtd Mean	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Percentiles Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
Glacier Nat Park		40	5.25	5.45	.08	5.47	.46	4.42	5.14	5.4	5.8	6.6	.059	.052
Nebraska														
NADP														
Mead	2	39	5.03	5.48	.15	5.53	.79	3.73	4.88	5.8	6.2	7.2	.131	.152*
New Hampshire														
NADP														
Hubbard Brook	1	46	4.43	4.60	.11	4.63	.55	3.82	4.26	4.5	4.8	6.2	.150*	.130
New Jersey														
NADP														
Washington Xing	3	36	4.41	4.42	.11	4.45	.53	3.54	4.11	4.4	4.8	6.5	.113	.094
New Mexico														
NADP														
Bandelier		37	5.05	5.41	.10	5.44	.55	4.74	4.94	5.4	5.9	6.9	.151*	.148*
CUBA		39	4.98	5.31	.12	5.35	.67	4.19	4.76	5.3	5.8	6.9	.122	.099
New York														
NADP														
Aurora	2A	48	4.23	4.29	.09	4.31	.38	3.72	4.00	4.3	4.6	5.9	.090	.088
Bennett Bridge	2A	46	4.24	4.27	.08	4.29	.33	3.44	4.04	4.3	4.5	5.0	.086	.101
Chautauqua	2A	46	4.20	4.29	.06	4.30	.26	3.64	4.10	4.3	4.4	4.9	.080	.090
Huntington	2B	44	4.43	4.56	.12	4.59	.58	3.67	4.25	4.5	4.9	6.8	.146*	.119
Jasper	2A	45	4.30	4.37	.09	4.39	.39	3.60	4.20	4.4	4.6	6.0	.136*	.119
Knobit	2A	37	4.45	4.49	.11	4.52	.49	3.47	4.14	4.5	4.9	5.6	.113	.107
Stilwell Lake	2B	44	4.40	4.31	.08	4.32	.35	3.56	4.06	4.3	4.6	5.1	.099	.109
MAP3s/PCN														
Brookhaven	2B	69	4.42	4.38	.10	4.40	.43	3.53	4.09	4.4	4.7	5.5	.075	.090
Ithaca	2A	71	4.17	4.21	.07	4.22	.29	3.41	4.03	4.3	4.4	4.8	.102	.109*
Whiteface	1	104	4.37	4.40	.09	4.42	.41	3.53	4.15	4.4	4.7	6.3	.076	.057
UAPSP														
Big Moose	1	159	4.33	4.38	.09	4.40	.41	3.57	4.11	4.3	4.7	5.5	.074*	.059
North Carolina														
NADP														
Clinton Station	2A	41	4.60	4.71	.12	4.74	.60	3.76	4.29	4.7	5.0	6.9	.131	.133
Coweeta	2A	37	4.70	4.79	.09	4.81	.48	4.14	4.47	4.8	5.0	6.8	.135	.111
Finley (A)	2A	42	4.56	4.60	.11	4.63	.53	3.75	4.25	4.5	5.0	6.2	.122	.103
Lewiston	2A	42	4.43	4.52	.10	4.54	.46	3.75	4.13	4.6	4.9	5.5	.102	.105
Piedmont Station	2A	45	4.49	4.64	.14	4.69	.72	3.67	4.24	4.6	4.8	7.1	.233*	.201*
UAPSP														
Raleigh	3	81	4.46	4.52	.10	4.54	.45	3.64	4.28	4.5	4.8	6.0	.113*	.094
Ohio														
NADP														
Caldwell	2B	47	4.25	4.24	.07	4.25	.28	3.59	4.09	4.3	4.4	5.0	.128	.141*
Delaware	2A	48	4.30	4.34	.09	4.36	.43	3.56	4.10	4.4	4.5	6.4	.183*	.159*
Wooster	3	45	4.25	4.37	.08	4.38	.34	3.63	4.24	4.4	4.5	5.8	.131	.141*
UAPSP														
McArthur	2A	122	4.26	4.22	.07	4.23	.28	3.15	4.06	4.2	4.4	5.3	.061	.074
Zanesville	3	120	4.23	4.19	.06	4.20	.25	3.53	4.04	4.2	4.3	5.0	.063	.060
Oklahoma														
NADP														
Clayton Lake		38	4.71	4.82	.09	4.83	.44	4.16	4.47	4.8	5.2	5.8	.104	.099
Oregon														

pH

State / Network / Site Name	Site Rep	N	Wtd Mean	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
NADP														
Lost Creek Dam		34	5.41	5.42	.08	5.43	.41	3.79	5.32	5.5	5.7	6.1	.167*	.189*
Pennsylvania														
NADP														
Kane	2A	42	4.20	4.32	.11	4.35	.52	3.47	4.11	4.2	4.5	6.4	.172*	.144*
Leading Ridge	1	46	4.25	4.31	.09	4.33	.40	3.51	4.09	4.3	4.6	5.5	.072	.070
MAP3s/PCN														
Penn State	2B	66	4.14	4.16	.08	4.17	.33	3.51	3.98	4.2	4.4	5.0	.057	.065
UAPSP														
Scranton	2A	103	4.33	4.25	.09	4.27	.37	3.45	4.03	4.3	4.5	5.3	.038	.040
South Carolina														
NADP														
Clemson	3	44	4.52	4.45	.09	4.46	.40	3.62	4.20	4.4	4.8	5.3	.069	.077
South Dakota														
UAPSP														
Brookings	2A	53	5.23	5.48	.10	5.51	.55	4.31	5.10	5.5	5.9	6.4	.067	.076
Tennessee														
NADP														
Walker Branch	2A	43	4.48	4.51	.10	4.53	.48	3.65	4.31	4.5	4.7	6.8	.140*	.122
MAP3s/PCN														
Oak Ridge	2B	60	4.37	4.32	.09	4.34	.40	3.40	4.16	4.4	4.6	5.8	.106	.117*
UAPSP														
Alamo	2B	44	4.67	4.66	.10	4.69	.52	4.08	4.37	4.6	4.9	7.3	.164*	.131
Texas														
NADP														
Forest Seed Ctr	2	39	4.84	4.95	.10	4.98	.51	4.24	4.56	4.9	5.2	6.4	.122	.109
K-Bar	2	29	5.55	5.86	.09	5.89	.54	5.06	5.38	5.8	6.2	7.3	.123	.126
Longview	2	39	4.79	4.89	.11	4.91	.54	4.12	4.55	4.8	5.2	6.6	.126	.105
UAPSP														
Marshall	2A	67	4.67	4.65	.09	4.66	.41	3.78	4.41	4.7	4.8	5.9	.108	.094
Vermont														
NADP														
Bennington	2A	47	4.43	4.55	.11	4.58	.49	3.67	4.21	4.5	4.9	6.2	.067	.057
UAPSP														
Underhill Center	2A	148	4.45	4.40	.10	4.42	.42	3.46	4.09	4.4	4.7	5.5	.055	.040
Virginia														
NADP														
Horton's Station	3	36	4.62	4.74	.11	4.77	.58	3.85	4.40	4.7	4.9	7.0	.161*	.135
MAP3s/PCN														
Virginia	2A	51	4.29	4.26	.08	4.27	.35	3.59	3.94	4.3	4.5	5.2	.118	.126*
West Virginia														
NADP														
Parsons	2A	49	4.29	4.38	.09	4.40	.38	3.71	4.08	4.4	4.7	5.3	.095	.098
Wisconsin														
NADP														
Lake Dubay	2	44	4.48	4.85	.15	4.90	.77	3.89	4.34	4.6	5.4	6.9	.191*	.186*
Spooner	1	41	4.78	4.98	.11	5.01	.57	4.29	4.66	4.8	5.4	6.4	.192*	.171*
Trout Lake	1	40	4.65	4.86	.11	4.89	.56	3.86	4.55	4.7	5.2	6.6	.181*	.158*
WISC														
Legend Lake		74	4.33	4.50	.12	4.53	.61	3.52	4.19	4.4	4.6	6.6	.194*	.167*

pH

State / Network / Site Name	Site Rep	N	Wtd Mean	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Percentiles Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
Round Lake	1	102	4.51	4.57	.08	4.58	.39	3.66	4.31	4.5	4.8	6.0	.091*	.075
Wyoming														
NADP														
Newcastle		41	5.21	5.70	.10	5.72	.56	4.85	5.20	5.8	6.1	7.3	.091	.108
American Samoa														
NADP														
American Samoa		48	5.52	5.59	.05	5.60	.25	4.81	5.45	5.6	5.8	6.1	.067	.064
Alberta														
CANSAP														
Fort McMurray		10	5.57	5.78	.11	5.81	.64	5.00	5.40	5.6	6.4	6.9	.269*	.252
British Columbia														
CANSAP														
Kelowna		10	4.96	4.99	.05	5.00	.25	4.60	4.88	5.0	5.2	5.5	.200	.191
Port Hardy		12	5.08	5.09	.03	5.09	.13	4.90	5.00	5.1	5.2	5.4	.225	.220
Revelstoke		12	5.17	5.20	.04	5.20	.22	4.90	5.00	5.2	5.4	5.6	.174	.170
Vancouver		12	4.63	4.56	.04	4.57	.20	4.30	4.40	4.6	4.7	4.9	.167	.171
New Brunswick														
CANSAP														
Acadia Fes	3	12	4.37	4.37	.05	4.37	.21	4.00	4.23	4.4	4.5	4.7	.130	.138
Newfoundland														
CANSAP														
Stephenville	3	10	4.55	4.62	.04	4.62	.19	4.40	4.50	4.6	4.8	5.0	.241	.235
Nova Scotia														
CANSAP														
Kejimkujik (a)	2A	12	4.72	4.73	.04	4.73	.21	4.30	4.60	4.8	4.9	5.0	.207	.206
Truro	3	11	4.53	4.53	.04	4.54	.20	4.30	4.40	4.5	4.6	5.0	.299*	.293*
Ontario														
CANSAP														
Dorset (a)	1	12	4.19	4.17	.03	4.17	.12	4.00	4.10	4.2	4.3	4.4	.206	.204
Mount Forest (a)	3	12	4.53	4.69	.13	4.73	.66	4.00	4.25	4.6	5.0	6.3	.187	.163
APIOS-D														
Balsam Lake	1	107	4.38	4.47	.12	4.51	.57	3.30	4.12	4.4	4.7	6.7	.136*	.109*
Charleston Lake	2A	84	4.48	4.61	.11	4.63	.50	3.78	4.28	4.6	4.9	5.9	.090	.069
Dorset (b)	1	123	4.42	4.47	.10	4.49	.48	3.55	4.20	4.4	4.7	6.1	.106*	.091*
Melbourne	2A	80	4.30	4.31	.07	4.32	.31	3.61	4.11	4.3	4.4	5.3	.125*	.110*
Raven Lake	1	116	4.40	4.47	.11	4.50	.50	3.31	4.16	4.4	4.7	6.3	.106*	.086*
Wellesley	2B	100	4.42	4.45	.11	4.48	.52	3.81	4.13	4.4	4.7	6.6	.145*	.121*
APIOS-C														
Colchester	2A	11	4.26	4.23	.03	4.23	.14	3.90	4.12	4.3	4.3	4.3	.341*	.343*
Dorion	1	12	4.63	4.77	.11	4.80	.56	4.18	4.39	4.7	4.9	6.1	.269*	.245*
Dorset (c)	1	13	4.32	4.31	.02	4.31	.10	4.16	4.23	4.3	4.4	4.5	.111	.112
Expt. Lake Area	2A	11	5.09	5.12	.14	5.16	.72	4.41	4.53	4.9	6.0	6.3	.177	.162
Gowganda	2A	12	4.50	4.49	.07	4.50	.33	4.04	4.19	4.5	4.8	5.0	.150	.144
Huron Park	2A	11	4.39	4.42	.07	4.43	.30	3.93	4.26	4.3	4.7	4.9	.173	.163
Killarney	2A	12	4.24	4.20	.05	4.21	.20	3.88	4.07	4.2	4.3	4.6	.144	.136
Mattawa	2A	11	4.39	4.38	.02	4.38	.10	4.29	4.30	4.4	4.5	4.6	.217	.219
Merlin	2A	12	4.32	4.32	.04	4.33	.19	4.01	4.19	4.3	4.5	4.7	.132	.129
Palmerston	2A	12	4.57	4.57	.04	4.57	.19	4.27	4.45	4.6	4.6	5.0	.176	.170
Quetico Centre	1	11	4.92	4.93	.10	4.95	.56	4.43	4.57	4.9	5.1	6.5	.263*	.240
Shallow Lake	2A	12	4.29	4.28	.05	4.28	.23	3.84	4.12	4.3	4.4	4.7	.141	.135

pH

State / Network / Site Name	Site Rep	N	Wtd Mean	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Percentiles Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
Smith's Falls	3	10	4.55	4.61	.06	4.62	.27	4.11	4.43	4.7	4.8	5.0	.182	.193
Waterloo	2A	10	4.37	4.37	.04	4.37	.17	4.07	4.26	4.4	4.5	4.6	.208	.213
Wilberforce	1	13	4.32	4.30	.03	4.30	.15	4.10	4.15	4.4	4.4	4.5	.160	.165
Quebec														
CANSAP														
Maniwaki	2B	10	4.45	4.50	.05	4.51	.24	4.20	4.30	4.5	4.7	4.9	.211	.212

H+ (derived from pH)

State / Network / Site Name	Site Rep	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Concentration Percentiles mg/l Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
Alabama															
UAPSP															
Selma	2A	103		.02	.03	.87	.05	.05	.01	.01	0.0	0.1	0.4	.229*	.079
Arizona															
NADP															
Grand Canyon		36		.01	.00	1.07	.01	.01	.00	.00	0.0	0.0	0.1	.262*	.073
Organ Pipe Mon.		26		.01	.00	1.31	.00	.01	.00	.00	0.0	0.0	0.0	.229*	.091
Arkansas															
NADP															
Fayetteville	2B	40		.01	.01	1.17	.01	.01	.00	.00	0.0	0.0	0.1	.178*	.181*
Warren 2WSW	2	43		.01	.01	1.40	.02	.03	.00	.01	0.0	0.0	0.1	.214*	.129
California															
NADP															
Davis Site		30		.00	.00	.86	.00	.00	.00	.00	0.0	0.0	0.0	.306*	.132
Hopland (Ukiah)		34		.00	.00	.59	.00	.00	.00	.00	0.0	0.0	0.0	.130	.103
Sequoia Nat. Park		29		.00	.00	1.10	.01	.01	.00	.00	0.0	0.0	0.0	.313*	.107
Tanbark Flat		28		.01	.01	1.17	.03	.05	.00	.01	0.0	0.0	0.3	.293*	.128
Yosemite		33		.00	.00	.80	.01	.01	.00	.00	0.0	0.0	0.0	.315*	.145
Colorado															
NADP															
Manitou		42		.01	.00	1.64	.01	.01	.00	.00	0.0	0.0	0.1	.223*	.169*
Mesa Verde		36		.01	.00	1.85	.02	.03	.00	.00	0.0	0.0	0.1	.281*	.095
Pawnee	2A	35		.00	.00	1.03	.00	.00	.00	.00	0.0	0.0	0.0	.226*	.086
Rocky Mt. Nat Park		46		.01	.01	1.48	.02	.02	.00	.00	0.0	0.0	0.1	.245*	.079
Sand Spring		46		.01	.00	1.47	.01	.02	.00	.00	0.0	0.0	0.1	.260*	.154*
UAPSP															
Yampa	1	117		.01	.01	.92	.01	.01	.00	.00	0.0	0.0	0.1	.167*	.065
Delaware															
NAP3s/PCN															
Lewes	2A	65		.05	.04	1.01	.06	.05	.01	.01	0.0	0.1	0.2	.173*	.078
Florida															
NADP															
Bradford Forest	2A	40		.02	.02	1.05	.03	.03	.00	.01	0.0	0.0	0.1	.200*	.070
Georgia															
NADP															
Georgia Station	2A	40		.02	.01	1.45	.03	.02	.00	.01	0.0	0.0	0.1	.138	.160*
UAPSP															
Uvalda	2A	87		.02	.02	.81	.03	.03	.00	.01	0.0	0.0	0.2	.212*	.066
Hawaii															
NADP															
Mauna Loa		16		.01	.00	1.61	.01	.01	.00	.00	0.0	0.0	0.0	.320*	.135
Illinois															
NADP															
Argonne	3	42		.04	.03	1.26	.05	.05	.00	.03	0.0	0.1	0.3	.231*	.230*
Bondville	2A	43		.05	.02	1.70	.05	.05	.00	.03	0.0	0.1	0.3	.221*	.300*
Dixon Springs	2B	43		.03	.03	1.14	.04	.03	.00	.02	0.0	0.1	0.1	.137	.208*
NIARC	1	42		.03	.02	1.52	.03	.03	.00	.01	0.0	0.0	0.1	.139*	.165*
Salem	1	37		.04	.03	1.40	.05	.06	.00	.02	0.0	0.0	0.4	.323*	.255*
Southern Ill U	2B	43		.03	.03	.99	.04	.03	.00	.02	0.0	0.0	0.2	.210*	.135
Indiana															

H+ (derived from pH)

State / Network / Site Name	Site Rep	N	N BDL	Concentration: Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	25%	50%	75%	Max	K-S D-Statistic: Gau	Log
NADP															
Indiana Dunes	3	47		.04	.02	1.49	.04	.02	.00	.02	0.0	0.1	0.1	.104	.225*
Purdue U Ag Farm	2	44		.05	.07	1.11	.16	.31	.01	.03	0.1	0.1	1.7	.353*	.151*
UAPSP															
Fort Wayne	2A	92		.05	.04	.84	.05	.03	.00	.03	0.0	0.1	0.2	.118*	.152*
Rockport	3	85		.05	.05	.78	.07	.05	.00	.04	0.1	0.1	0.3	.210*	.114*
Kansas															
NADP															
Konza Prairie	2	39		.01	.01	1.27	.01	.01	.00	.00	0.0	0.0	0.0	.182*	.109
UAPSP															
Lancaster	2A	70		.02	.01	1.25	.02	.02	.00	.01	0.0	0.0	0.1	.150*	.133*
Kentucky															
UAPSP															
Morehead	2A	125		.06	.05	1.00	.07	.08	.00	.03	0.0	0.1	0.5	.194*	.074
Louisiana															
NADP															
Iberia	2	37		.01	.01	1.38	.02	.02	.00	.01	0.0	0.0	0.1	.233*	.157*
Maine															
NADP															
Caribou (a)	2B	41		.02	.01	1.44	.02	.02	.00	.01	0.0	0.0	0.1	.148*	.170*
Greenville Station	2B	46		.02	.01	1.06	.02	.02	.00	.01	0.0	0.0	0.1	.174*	.113
UAPSP															
Winterport	2A	102		.02	.03	1.02	.05	.04	.00	.01	0.0	0.1	0.2	.160*	.056
Massachusetts															
NADP															
East	3	47		.04	.05	1.08	.09	.13	.00	.02	0.0	0.1	0.7	.288*	.131*
UAPSP															
Turners Falls	2A	93		.04	.03	1.62	.06	.05	.00	.02	0.0	0.1	0.3	.151*	.147*
Michigan															
NADP															
Douglas Lake	1	40		.03	.03	.83	.04	.04	.00	.02	0.0	0.0	0.3	.225*	.159*
Kellogg	2A	39		.05	.04	1.07	.06	.04	.00	.04	0.1	0.1	0.2	.114	.185*
Wellston	2A	46		.04	.03	.90	.04	.03	.00	.02	0.0	0.1	0.1	.145*	.155*
UAPSP															
Gaylord	2A	100		.04	.03	.92	.04	.04	.00	.02	0.0	0.1	0.3	.198*	.102*
Minnesota															
NADP															
Fernberg	1	42		.01	.01	1.29	.01	.01	.00	.00	0.0	0.0	0.1	.171*	.158*
Marcell	2B	38		.01	.01	1.31	.01	.02	.00	.00	0.0	0.0	0.1	.248*	.133
Mississippi															
NADP															
Meridian	3	38		.02	.01	1.16	.02	.02	.00	.01	0.0	0.0	0.1	.161*	.121
UAPSP															
Clinton	2A	110		.02	.02	1.07	.04	.04	.00	.02	0.0	0.0	0.2	.241*	.112*
Missouri															
NADP															
Ashland	2	45		.02	.01	1.25	.03	.03	.00	.01	0.0	0.0	0.1	.176*	.098
University Forest	2	42		.02	.02	1.10	.03	.02	.00	.01	0.0	0.0	0.1	.167*	.147*
Montana															
NADP															

H+ (derived from pH)

State / Network / Site Name	Site Rep	N	N BDL	Concentration: Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	25%	50%	75%	Max	K-S D-Statistic: Gau	Log
Glacier Nat Park		40		.01	.00	1.07	.01	.01	.00	.00	0.0	0.0	0.0	.209*	.059
Nebraska															
NADP															
Mead	2	39		.01	.00	1.82	.01	.03	.00	.00	0.0	0.0	0.2	.338*	.131
New Hampshire															
NADP															
Hubbard Brook	1	46		.04	.02	1.26	.04	.03	.00	.01	0.0	0.1	0.2	.153*	.150*
New Jersey															
NADP															
Washington Xing	3	36		.04	.04	1.22	.06	.06	.00	.02	0.0	0.1	0.3	.242*	.113
New Mexico															
NADP															
Bandelier		37		.01	.00	1.27	.01	.01	.00	.00	0.0	0.0	0.0	.181*	.151*
CUBA		39		.01	.00	1.54	.01	.01	.00	.00	0.0	0.0	0.1	.707*	.122
New York															
NADP															
Aurora	2A	48		.06	.05	.88	.07	.04	.00	.03	0.1	0.1	0.2	.139*	.090
Bennett Bridge	2A	46		.06	.05	.75	.07	.07	.01	.03	0.0	0.1	0.4	.211*	.086
Chautauqua	2A	46		.06	.05	.59	.06	.04	.01	.04	0.0	0.1	0.2	.170*	.080
Huntington	2B	44		.04	.03	1.34	.05	.05	.00	.01	0.0	0.1	0.2	.213*	.146*
Jasper	2A	45		.05	.04	.90	.06	.05	.00	.03	0.0	0.1	0.3	.208*	.136*
Knobit	2A	37		.04	.03	1.14	.06	.07	.00	.01	0.0	0.1	0.3	.241*	.113
Stillwell Lake	2B	44		.04	.05	.81	.07	.06	.01	.02	0.1	0.1	0.3	.160*	.099
MAP3s/PCN															
Brookhaven	2B	69		.04	.04	.98	.06	.06	.00	.02	0.0	0.1	0.3	.180*	.075
Ithaca	2A	71		.07	.06	.67	.08	.06	.02	.04	0.1	0.1	0.4	.180*	.102
Whiteface	1	104		.04	.04	.95	.05	.05	.00	.02	0.0	0.1	0.3	.143*	.076
UAPSP															
Big Moose	1	159		.05	.04	.95	.06	.05	.00	.02	0.0	0.1	0.3	.145*	.074*
North Carolina															
NADP															
Clinton Station	2A	41		.02	.02	1.38	.04	.04	.00	.01	0.0	0.1	0.2	.307*	.131
Coweeta	2A	37		.02	.02	1.12	.02	.02	.00	.01	0.0	0.0	0.1	.199*	.135
Finley (A)	2A	42		.03	.02	1.21	.04	.04	.00	.01	0.0	0.1	0.2	.181*	.122
Lewiston	2A	42		.04	.03	1.07	.05	.05	.00	.01	0.0	0.1	0.2	.264*	.102
Piedmont Station	2A	45		.03	.02	1.66	.04	.05	.00	.02	0.0	0.1	0.2	.200*	.233*
UAPSP															
Raleigh	3	81		.03	.03	1.04	.05	.04	.00	.02	0.0	0.1	0.2	.203*	.113*
Ohio															
NADP															
Caldwell	2B	47		.06	.06	.65	.07	.06	.01	.04	0.1	0.1	0.3	.254*	.128
Delaware	2A	48		.05	.04	1.00	.06	.05	.00	.03	0.0	0.1	0.3	.231*	.183*
Wooster	3	45		.06	.04	.79	.05	.05	.00	.03	0.0	0.1	0.2	.261*	.131
UAPSP															
McArthur	2A	122		.06	.06	.65	.07	.07	.00	.04	0.1	0.1	0.7	.209*	.061
Zanesville	3	120		.06	.06	.57	.07	.05	.01	.04	0.1	0.1	0.3	.143*	.063
Oklahoma															
NADP															
Clayton Lake		38		.02	.01	1.00	.02	.02	.00	.01	0.0	0.0	0.1	.137	.104
Oregon															

H+ (derived from pH)

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NADP															
Lost Creek Dam		34		.00	.00	.95	.01	.03	.00	.00	0.0	0.0	0.2	.403*	.167*
Pennsylvania															
NADP															
Kane	2A	42		.06	.04	1.20	.07	.06	.00	.03	0.1	0.1	0.3	.206*	.172*
Leading Ridge	1	46		.06	.05	.92	.07	.06	.00	.03	0.1	0.1	0.3	.191*	.072
MAP3s/PCN															
Penn State	2B	66		.07	.07	.75	.09	.07	.01	.04	0.1	0.1	0.3	.177*	.057
UAPSP															
Scranton	2A	103		.05	.05	.85	.08	.07	.01	.03	0.1	0.1	0.4	.179*	.038
South Carolina															
NADP															
Clemson	3	44		.03	.03	.93	.05	.05	.00	.02	0.0	0.1	0.2	.196*	.069
South Dakota															
UAPSP															
Brookings	2A	53		.01	.00	1.27	.01	.01	.00	.00	0.0	0.0	0.0	.249*	.067
Tennessee															
NADP															
Walker Branch	2A	43		.03	.03	1.10	.04	.04	.00	.02	0.0	0.0	0.2	.240*	.140*
MAP3s/PCN															
Oak Ridge	2B	60		.04	.05	.92	.07	.07	.00	.03	0.0	0.1	0.4	.272*	.106
UAPSP															
Alamo	2B	44		.02	.02	1.20	.03	.02	.00	.01	0.0	0.0	0.1	.152*	.164*
Texas															
NADP															
Forest Seed Ctr	2	39		.01	.01	1.17	.02	.01	.00	.01	0.0	0.0	0.1	.164*	.122
K-Bar	2	29		.00	.00	1.23	.00	.00	.00	.00	0.0	0.0	0.0	.200*	.123
Longview	2	39		.02	.01	1.25	.02	.02	.00	.01	0.0	0.0	0.1	.157*	.126
UAPSP															
Marshall	2A	67		.02	.02	.93	.03	.03	.00	.01	0.0	0.0	0.2	.215*	.108
Vermont															
NADP															
Bennington	2A	47		.04	.03	1.14	.04	.04	.00	.01	0.0	0.1	0.2	.164*	.067
UAPSP															
Underhill Center	2A	148		.04	.04	.98	.06	.06	.00	.02	0.0	0.1	0.3	.175*	.055
Virginia															
NADP															
Horton's Station	3	36		.02	.02	1.33	.03	.03	.00	.01	0.0	0.0	0.1	.251*	.161*
MAP3s/PCN															
Virginia	2A	51		.05	.05	.80	.07	.06	.01	.03	0.1	0.1	0.3	.209*	.118
West Virginia															
NADP															
Parsons	2A	49		.05	.04	.88	.06	.05	.00	.02	0.0	0.1	0.2	.186*	.095
Wisconsin															
NADP															
Lake Dubay	2	44		.03	.01	1.77	.03	.03	.00	.00	0.0	0.0	0.1	.146*	.191*
Spooner	1	41		.02	.01	1.31	.02	.01	.00	.00	0.0	0.0	0.1	.133	.192*
Trout Lake	1	40		.02	.01	1.30	.02	.02	.00	.01	0.0	0.0	0.1	.203*	.181*
WISC															
Legend Lake		74		.05	.03	1.40	.05	.05	.00	.02	0.0	0.1	0.3	.166*	.194*

H+ (derived from pH)

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Round Lake	1	102		.03	.03	.91	.04	.03	.00	.02	0.0	0.0	0.2	.148*	.091*
Wyoming															
NADP															
Newcastle		41		.01	.00	1.29	.00	.00	.00	.00	0.0	0.0	0.0	.266*	.091
American Samoa															
NADP															
American Samoa		48		.00	.00	.58	.00	.00	.00	.00	0.0	0.0	0.0	.179*	.067
Alberta															
CANSAP															
Fort McMurray		10		.00	.00	1.47	.00	.00	.00	.00	0.0	0.0	0.0	.261*	.269*
British Columbia															
CANSAP															
Kelowna		10		.01	.01	.57	.01	.01	.00	.01	0.0	0.0	0.0	.226	.200
Port Hardy		12		.01	.01	.30	.01	.00	.00	.01	0.0	0.0	0.0	.174	.225
Revelstoke		12		.01	.01	.51	.01	.00	.00	.00	0.0	0.0	0.0	.156	.174
Vancouver		12		.02	.03	.45	.03	.01	.01	.02	0.0	0.0	0.1	.192	.167
New Brunswick															
CANSAP															
Acadia Fes	3	12		.04	.04	.49	.05	.02	.02	.03	0.0	0.1	0.1	.204	.130
Newfoundland															
CANSAP															
Stephenville	3	10		.03	.02	.44	.03	.01	.01	.02	0.0	0.0	0.0	.229	.241
Nova Scotia															
CANSAP															
Kejimkujik (a)	2A	12		.02	.02	.47	.02	.01	.01	.01	0.0	0.0	0.1	.192	.207
Truro	3	11		.03	.03	.46	.03	.01	.01	.03	0.0	0.0	0.1	.230	.299*
Ontario															
CANSAP															
Dorset (a)	1	12		.06	.07	.28	.07	.02	.04	.05	0.1	0.1	0.1	.179	.206
Mount Forest (a)	3	12		.03	.02	1.52	.03	.03	.00	.01	0.0	0.1	0.1	.206	.187
APIOS-D															
Balsam Lake	1	107		.04	.03	1.30	.06	.07	.00	.02	0.0	0.1	0.5	.208*	.136*
Charleston Lake	2A	84		.03	.02	1.15	.04	.04	.00	.01	0.0	0.1	0.2	.190*	.090
Dorset (b)	1	123		.04	.03	1.10	.05	.05	.00	.02	0.0	0.1	0.3	.152*	.106*
Melbourne	2A	80		.05	.05	.72	.06	.04	.01	.04	0.0	0.1	0.2	.160*	.125*
Raven Lake	1	116		.04	.03	1.14	.05	.06	.00	.02	0.0	0.1	0.5	.179*	.106*
Wellesley	2B	100		.04	.03	1.21	.05	.04	.00	.02	0.0	0.1	0.2	.124*	.145*
APIOS-C															
Colchester	2A	11		.06	.06	.31	.06	.02	.05	.05	0.1	0.1	0.1	.360*	.341*
Dorion	1	12		.02	.02	1.29	.03	.02	.00	.01	0.0	0.0	0.1	.196	.269*
Dorset (c)	1	13		.05	.05	.23	.05	.01	.03	.04	0.0	0.1	0.1	.127	.111
Expt. Lake Area	2A	11		.01	.01	1.66	.02	.01	.00	.00	0.0	0.0	0.0	.153	.177
Gowganda	2A	12		.03	.03	.77	.04	.03	.01	.02	0.0	0.1	0.1	.191	.150
Huron Park	2A	11		.04	.04	.69	.05	.03	.01	.02	0.0	0.1	0.1	.204	.173
Killarney	2A	12		.06	.06	.46	.07	.03	.03	.05	0.1	0.1	0.1	.186	.144
Mattawa	2A	11		.04	.04	.24	.04	.01	.02	.04	0.0	0.1	0.1	.229	.217
Merlin	2A	12		.05	.05	.44	.05	.02	.02	.03	0.0	0.1	0.1	.142	.132
Palmerston	2A	12		.03	.03	.44	.03	.01	.01	.02	0.0	0.0	0.1	.215	.176
Quetico Centre	1	11		.01	.01	1.28	.02	.01	.00	.01	0.0	0.0	0.0	.180	.263*
Shallow Lake	2A	12		.05	.05	.53	.06	.03	.02	.04	0.0	0.1	0.1	.193	.141

H+ (derived from pH)

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		Concentration							Percentiles mg/l						
Smith's Falls	3	10		.03	.02	.63	.03	.02	.01	.02	0.0	0.0	0.1	.283*	.182
Waterloo	2A	10		.04	.04	.40	.05	.02	.03	.03	0.0	0.1	0.1	.249	.208
Wilberforce	1	13		.05	.05	.34	.05	.02	.03	.04	0.0	0.1	0.1	.205	.160
Quebec															
CANSAP															
Maniwaki	2B	10		.04	.03	.55	.04	.02	.01	.02	0.0	0.1	0.1	.215	.211

Sulfate

State / Network / Site Name	Site Rep	N	N BDL	Concentration: Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	25%	50%	75%	Max	K-S D-Statistic: Gau	Log
Alabama															
UAPSP															
Selma	2A	102		1.13	1.42	.91	2.28	2.96	.28	.83	1.3	2.5	17.3	.263*	.105*
Arizona															
NADP															
Grand Canyon		36	1	.70	.81	.89	1.14	.99	.10	.50	0.7	1.6	4.8	.229*	.119
Organ Pipe Mon.		26	2	.64	.79	1.06	1.27	1.39	.10	.43	0.9	1.8	6.8	.192*	.076
Arkansas															
NADP															
Fayetteville	2B	40		1.54	1.76	.65	2.20	1.77	.55	1.07	1.6	2.8	10.1	.190*	.090
Warren 2WSW	2	42		1.18	1.46	.67	1.83	1.36	.46	.92	1.4	2.5	7.0	.194*	.086
California															
NADP															
Davis Site		27		.54	.69	.59	.83	.58	.19	.48	0.6	1.0	2.9	.205*	.101
Hopland (Ukiah)		34	5	.32	.34	.93	.47	.39	.10	.26	0.4	0.6	2.1	.207*	.121
Sequoia Nat. Park		28	5	.34	.44	1.26	.80	.82	.10	.21	0.6	1.0	3.4	.201*	.115
Tanbark Flat		27	1	.56	.89	1.11	1.59	1.94	.10	.46	0.7	1.7	8.4	.263*	.132
Yosemite		33	8	.27	.34	1.18	.56	.47	.10	.22	0.4	1.0	1.5	.204*	.149
Colorado															
NADP															
Manitou		38		.91	.96	.68	1.19	.82	.23	.60	1.0	1.7	3.9	.160*	.059
Mesa Verde		36		.97	1.13	.82	1.69	2.17	.39	.64	0.9	2.1	12.3	.274*	.173*
Pawnee	2A	34	1	1.14	1.23	.68	1.58	1.50	.32	.95	1.1	1.7	8.3	.264*	.178*
Rocky Mt. Nat Park		46	1	.83	.99	.88	1.39	1.23	.10	.56	0.9	1.7	5.8	.171*	.084
Sand Spring		44		1.02	1.25	.84	1.95	2.93	.38	.68	1.3	1.8	18.7	.296*	.131
UAPSP															
Yampa	1	110	1	.79	.59	.92	.83	.68	.02	.31	0.6	1.2	4.2	.136*	.075
Delaware															
MAP3s/PCN															
Lewes	2A	65		2.36	2.00	.74	2.66	2.28	.48	1.15	1.9	3.4	11.5	.194*	.071
Florida															
NADP															
Bradford Forest	2A	40		1.15	1.29	.68	1.65	1.41	.21	.82	1.3	1.9	6.8	.240*	.102
Georgia															
NADP															
Georgia Station	2A	40		1.29	1.57	.63	1.92	1.32	.54	.89	1.5	2.7	6.7	.163*	.099
UAPSP															
Uvalda	2A	87		.95	.91	.88	1.35	1.49	.14	.47	0.9	1.6	8.9	.221*	.085
Hawaii															
NADP															
Mauna Loa		15	4	.53	.56	1.54	1.39	1.85	.10	.38	0.6	1.1	5.2	.369*	.154
Illinois															
NADP															
Argonne	3	41		2.92	3.25	.44	3.61	1.93	1.59	2.46	3.0	4.3	11.4	.208*	.119
Dixon Springs	2B	40		2.10	2.53	.55	2.92	1.59	.79	1.69	2.6	4.2	6.9	.136	.087
NIARC	1	40		2.48	2.55	.44	2.79	1.19	.90	1.98	2.6	3.4	6.0	.119	.102
Salem	1	36		2.04	2.48	.63	3.32	4.46	.96	1.65	2.1	3.2	28.1	.298*	.178*
Southern Ill U	2B	42		1.99	2.44	.64	3.08	2.61	.92	1.74	2.2	3.6	13.3	.241*	.124
Indiana															
NADP															

Sulfate

State / Network / Site Name	Site Rep	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	SD	Arithmetic Mean mg/l	SD mg/l	Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
							Concentration			Percentiles mg/l					
Indiana Dunes	3	46		2.98	3.13	.65	3.81	2.51	.65	2.06	3.0	5.0	13.4	.135*	.071
Purdue U Ag Farm	2	43		2.60	3.23	.67	4.10	3.83	.56	2.18	3.2	4.7	25.3	.213*	.087
UAPSP															
Fort Wayne	2A	92		2.40	2.58	.59	3.03	1.68	.61	1.76	2.5	4.5	7.4	.134*	.087
Rockport	3	84		2.41	2.50	.65	3.17	2.68	.57	1.64	2.3	3.8	15.8	.201*	.078
Kansas															
NADP															
Konza Prairie	2	39	1	1.52	1.47	.98	2.30	2.89	.10	.95	1.6	2.2	16.0	.307*	.131
UAPSP															
Lancaster	2A	70		1.50	1.48	.67	1.85	1.42	.28	1.03	1.5	2.2	9.2	.216*	.096
Kentucky															
UAPSP															
Morehead	2A	121		2.89	2.49	.87	3.69	4.02	.35	1.31	2.5	4.3	23.5	.204*	.048
Maine															
NADP															
Greenville Station	2B	45	3	.99	.86	1.03	1.27	1.05	.10	.58	0.9	1.8	4.3	.206*	.082
UAPSP															
Winterport	2A	100		1.02	1.14	.99	1.83	1.99	.09	.57	1.1	2.5	10.0	.201*	.058
Massachusetts															
NADP															
East	3	46		1.86	2.14	.65	2.69	2.16	.56	1.32	2.0	3.4	12.4	.209*	.108
UAPSP															
Turners Falls	2A	93		1.74	1.71	1.04	2.68	2.47	.11	.80	1.9	3.9	14.2	.154*	.091
Michigan															
NADP															
Douglas Lake	1	39		1.90	1.79	.77	2.54	3.35	.26	.99	1.8	2.7	21.3	.260*	.070
Kellogg	2A	38		2.81	3.59	.66	4.49	3.35	.88	2.23	3.3	6.0	15.0	.185*	.091
Wellston	2A	46		2.27	2.20	.59	2.59	1.57	.53	1.38	2.2	3.2	8.8	.130	.076
UAPSP															
Gaylord	2A	97		2.02	1.51	.87	2.11	1.94	.13	.86	1.8	2.7	15.0	.170*	.105*
Minnesota															
NADP															
Fernberg	1	41	1	.95	1.04	.90	1.52	1.53	.10	.59	1.1	1.6	6.7	.274*	.115
Marcell	2B	37		1.35	1.47	.69	1.91	1.77	.38	.92	1.6	2.0	8.6	.265*	.110
Mississippi															
NADP															
Meridian	3	38		1.24	1.38	.56	1.61	.95	.48	.94	1.4	2.1	4.5	.142	.070
UAPSP															
Clinton	2A	109		1.28	1.48	.82	2.09	2.00	.24	.89	1.4	2.3	10.4	.234*	.092*
Missouri															
NADP															
Ashland	2	45	1	2.07	2.06	.63	2.58	2.18	.80	1.36	2.0	2.8	12.4	.262*	.115
University Forest	2	41		1.61	1.82	.58	2.14	1.34	.55	1.28	1.8	2.7	7.7	.167*	.065
Montana															
NADP															
Glacier Nat Park		41	5	.49	.52	.81	.67	.52	.10	.47	0.6	0.8	3.3	.196*	.166*
Nebraska															
NADP															
Mead	2	36		1.74	1.74	.74	2.28	1.85	.47	1.04	1.7	3.3	9.7	.201*	.076
New Hampshire															

Sulfate

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NADP															
Hubbard Brook	1	45	2	1.64	1.39	1.03	2.04	1.75	.10	.87	1.4	2.8	9.0	.167*	.087
New Mexico															
NADP															
Bandelier		36	1	1.05	1.03	.95	1.59	1.72	.10	.57	0.9	1.8	7.8	.293*	.136
CUBA		36		1.08	1.10	.76	1.47	1.19	.32	.55	1.0	1.9	4.5	.181*	.112
New York															
NADP															
Aurora	2A	48		2.95	2.77	.81	3.78	3.08	.57	1.53	2.4	6.2	14.7	.188*	.096
Bennett Bridge	2A	46		2.59	2.49	.72	3.20	2.37	.71	1.32	2.6	4.7	12.0	.171*	.102
Chautauqua	2A	44		3.02	2.75	.61	3.34	2.50	.73	1.79	2.9	4.0	13.6	.190*	.087
Huntington	2B	44		1.89	1.79	.91	2.67	2.57	.34	.88	1.9	3.4	11.6	.182*	.114
Jasper	2A	45		2.37	2.24	.71	2.90	2.44	.54	1.16	2.2	3.7	13.8	.203*	.099
Knobit	2A	37		1.60	1.51	1.03	2.58	3.33	.18	.70	1.5	3.3	15.4	.236*	.108
Stilwell Lake	2B	43		1.83	2.36	.85	3.51	3.93	.55	1.18	2.2	3.7	20.7	.247*	.087
MAP3s/PCN															
Brookhaven	2B	68		1.65	1.87	.82	2.68	2.76	.43	1.06	1.8	3.1	12.5	.207*	.074
Ithaca	2A	71		2.86	2.33	.88	3.39	3.23	.35	1.35	2.3	4.2	18.3	.173*	.056
Whiteface	1	105		1.86	1.72	.93	2.54	2.37	.16	1.01	1.9	3.0	12.5	.195*	.072
UAPSP															
Big Moose	1	156		2.01	1.51	1.12	2.61	2.76	.07	.67	1.7	3.6	15.6	.179*	.062
North Carolina															
NADP															
Clinton Station	2A	40		1.56	1.69	.73	2.25	1.94	.60	1.01	1.4	3.0	8.8	.252*	.159*
Finley (A)	2A	42		1.82	1.87	.84	2.73	2.75	.57	.95	1.6	3.2	13.0	.244*	.126
Lewiston	2A	42		2.09	2.11	.79	2.89	2.50	.59	1.18	1.6	4.2	11.0	.222*	.152*
Piedmont Station	2A	44		1.89	2.06	.77	2.83	2.61	.57	1.20	1.9	3.3	11.6	.261*	.108
UAPSP															
Raleigh	3	80		1.64	1.60	.91	2.39	2.41	.22	.90	1.6	3.1	14.1	.231*	.064
Ohio															
NADP															
Caldwell	2B	47		3.02	3.11	.72	4.13	3.80	.44	2.11	2.9	4.4	15.7	.280*	.157*
Delaware	2A	48		2.71	2.93	.70	3.87	3.85	.44	1.97	2.4	4.1	23.3	.249*	.134*
Wooster	3	44		3.05	2.77	.52	3.24	2.28	1.03	1.80	2.7	3.5	13.8	.254*	.128
UAPSP															
McArthur	2A	121		2.31	2.35	.77	3.25	3.93	.23	1.37	2.4	3.8	38.8	.233*	.039
Zanesville	3	118		2.64	2.71	.68	3.35	2.22	.37	1.79	2.8	4.5	11.7	.123*	.049
Oklahoma															
NADP															
Clayton Lake		38		1.85	2.12	.65	2.66	2.16	.62	1.36	2.0	3.4	12.0	.220*	.087
Oregon															
NADP															
Lost Creek Dam		34	12	.20	.25	1.28	.47	.55	.10	.10	0.4	0.6	2.8	.231*	.232*
Pennsylvania															
NADP															
Kane	2A	42		3.03	2.78	.68	3.53	2.95	.91	1.62	2.8	4.2	17.5	.208*	.098
Leading Ridge	1	46		2.61	2.28	.89	3.38	3.50	.25	1.16	2.3	4.0	16.2	.215*	.057
MAP3s/PCN															
Penn State	2B	66		2.87	2.27	.93	3.37	3.10	.18	1.30	2.3	4.6	14.4	.153*	.072
UAPSP															

Sulfate

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Scranton	2A	102		1.85	2.03	.99	3.12	2.94	.07	.97	2.0	4.2	13.8	.168*	.069
South Carolina															
NADP															
Clemson	3	43		1.64	2.13	.84	2.97	2.69	.30	1.10	2.1	3.9	13.0	.198*	.069
South Dakota															
UAPSP															
Brookings	2A	52	1	1.13	1.01	.96	1.34	.87	.03	.70	1.1	2.1	3.6	.155*	.113
Tennessee															
NADP															
Walker Branch	2A	43		2.06	2.18	.65	2.73	2.13	.74	1.26	2.3	3.3	10.6	.203*	.081
MAP3s/PCN															
Oak Ridge	2B	60		2.12	2.53	.81	3.65	4.13	.58	1.47	2.6	3.4	24.0	.292*	.119*
UAPSP															
Alamo	2B	44		1.13	1.31	.85	1.83	1.49	.28	.62	1.2	2.9	5.1	.189*	.133
Texas															
NADP															
Forest Seed Ctr	2	39		1.19	1.59	.71	2.11	1.98	.47	1.03	1.4	2.7	9.4	.253*	.146*
K-Bar	2	29		1.23	1.45	.94	2.19	2.14	.17	.71	1.3	2.9	8.0	.233*	.121
Longview	2	37		1.34	1.73	.68	2.22	1.82	.57	1.01	1.4	3.1	8.4	.213*	.161*
UAPSP															
Marshall	2A	65		1.26	1.49	.70	1.90	1.42	.24	.90	1.4	2.6	6.6	.188*	.069
Vermont															
NADP															
Bennington	2A	47	1	1.92	1.59	1.04	2.52	2.67	.10	.67	1.6	3.7	15.2	.182*	.079
UAPSP															
Underhill Center	2A	145		1.47	1.37	1.16	2.40	2.56	.10	.65	1.5	3.5	13.5	.184*	.057
Virginia															
MAP3s/PCN															
Virginia	2A	51		2.22	2.15	.83	3.00	2.57	.41	1.25	2.0	4.7	9.6	.259*	.120
West Virginia															
NADP															
Parsons	2A	49		2.52	2.19	.83	3.08	2.81	.46	1.12	2.2	4.1	13.9	.177*	.085
Wisconsin															
NADP															
Lake Dubay	2	42	1	2.52	2.25	.67	2.78	1.98	.38	1.39	2.6	3.4	9.8	.200*	.115
Spooner	1	41	1	1.57	1.39	.82	1.79	1.22	.10	.96	1.5	2.5	5.1	.170*	.109
Trout Lake	1	40		1.57	1.60	.76	2.10	1.60	.35	.97	1.7	2.6	6.8	.176*	.064
WISC															
Legend Lake		73		2.59	2.05	.76	2.68	2.05	.38	1.15	2.1	3.7	12.5	.132*	.072
Round Lake	1	102		1.49	1.02	.95	1.47	1.13	.08	.51	1.3	2.0	5.1	.137*	.144*
Wyoming															
NADP															
Newcastle		41	4	1.11	1.01	1.10	1.59	1.62	.10	.75	1.2	1.7	7.8	.265*	.136
American Samoa															
NADP															
American Samoa		48		.80	1.14	.87	1.75	2.00	.26	.57	0.9	1.8	9.9	.300*	.187*
Alberta															
CANSAP															
Fort McMurray		10		1.86	1.83	.43	2.00	.94	1.07	1.29	1.7	2.7	3.7	.282*	.214
British Columbia															

Sulfate

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CANSAP															
Kelowna		10		.64	.60	.56	.70	.43	.23	.44	0.5	0.9	1.7	.240	.141
Port Hardy		12		.88	.93	.52	1.05	.57	.48	.56	1.0	1.4	2.2	.174	.164
Revelstoke		12		.54	.56	.24	.58	.14	.37	.47	0.6	0.7	0.8	.123	.116
Vancouver		12		1.50	1.80	.52	2.05	1.13	.79	1.24	1.6	2.8	4.2	.213	.156
New Brunswick															
CANSAP															
Acadia Fes	3	12		1.88	1.82	.56	2.11	1.23	.82	1.08	1.7	3.2	4.5	.220	.135
Newfoundland															
CANSAP															
Stephenville	3	10		1.67	1.46	.40	1.56	.60	.80	.99	1.5	2.2	2.3	.179	.173
Nova Scotia															
CANSAP															
Kejimkujik (a)	2A	12		.93	.92	.33	.97	.32	.48	.77	0.9	1.2	1.7	.195	.163
Truro	3	11		1.88	1.87	.48	2.05	.85	.64	1.35	2.0	2.6	3.7	.185	.191
Ontario															
CANSAP															
Dorset (a)	1	11		2.62	2.85	.47	3.17	1.69	1.23	2.08	2.8	3.3	7.5	.299*	.208
Mount Forest (a)	3	12		4.13	4.39	.46	4.95	3.25	2.42	3.51	4.2	5.0	14.8	.325*	.263*
APIOS-D															
Balsam Lake	1	109		2.14	1.96	.85	2.70	2.25	.20	1.20	2.1	3.7	12.8	.162*	.066
Charleston Lake	2A	84		1.74	1.49	.93	2.17	1.80	.15	.70	1.6	3.4	7.4	.169*	.083
Lac Le Croix (b)	2A	49	1	.84	.78	1.06	1.16	.94	.05	.55	0.9	1.6	4.0	.160*	.134*
Longwoods (b)	2B	89		3.03	2.97	.58	3.46	1.96	.65	2.20	3.2	4.2	9.2	.151*	.069
Melbourne	2A	86		3.11	2.98	.62	3.50	1.86	.45	2.11	3.2	4.9	8.6	.105*	.111*
North Easthope	2A	99		2.55	2.53	.71	3.13	1.95	.20	1.65	3.0	4.1	10.0	.092*	.102*
Raven Lake	1	124		2.34	1.98	.97	2.92	2.88	.05	1.20	2.1	4.0	23.5	.160*	.079
Wellesley	2B	106		2.35	2.36	.84	3.05	1.92	.10	1.64	2.8	4.2	8.6	.106*	.112*
APIOS-C															
Colchester	2A	11		4.12	4.24	.38	4.52	1.73	2.35	3.00	4.6	5.3	8.6	.204	.206
Coldwater	1	13		2.74	2.55	.59	2.93	1.44	.70	1.95	3.1	3.8	5.6	.114	.158
Dorion	1	13		1.47	1.30	.74	1.65	1.17	.35	.75	1.3	2.4	4.3	.216	.095
Dorset (c)	1	13		2.46	2.49	.45	2.72	1.20	.95	1.92	2.4	3.4	5.4	.145	.104
Expt. Lake Area	2A	12		1.04	1.09	.54	1.26	.74	.50	.75	0.9	1.6	3.0	.244*	.187
Gowganda	2A	12		1.73	1.79	.59	2.10	1.23	.80	.95	1.8	3.0	4.5	.184	.128
Huron Park	2A	12		4.46	4.48	.35	4.75	1.83	2.60	3.44	4.3	5.3	8.8	.210	.148
Killarney	2A	12		3.15	3.20	.37	3.41	1.32	1.50	2.69	3.2	3.9	6.5	.239	.170
Mattawa	2A	12		2.64	2.30	.52	2.58	1.27	.90	1.54	2.5	3.6	5.2	.148	.148
Merlin	2A	12		4.39	4.49	.31	4.69	1.37	2.55	3.70	4.7	5.8	6.8	.139	.169
Palmerston	2A	13		3.43	3.39	.36	3.59	1.29	1.75	3.05	3.5	3.9	6.9	.207	.213
Port Stanley	2B	12		4.29	4.21	.51	4.61	1.66	1.10	3.50	5.0	6.0	6.7	.139	.186
Quetico Centre	1	11		1.27	1.25	.67	1.55	1.17	.50	.65	1.3	1.7	4.4	.293*	.180
Shallow Lake	2A	12		3.23	3.22	.47	3.55	1.59	1.40	2.16	3.3	5.3	6.2	.166	.142
Smith's Falls	3	11		2.34	2.08	.74	2.68	2.06	.65	1.05	1.8	3.8	6.6	.256*	.144
Waterloo	2A	12		3.48	3.26	.27	3.36	.80	1.90	2.91	3.5	4.0	4.4	.185	.228
Wilberforce	1	13		2.72	2.54	.57	2.92	1.50	.70	1.80	2.9	3.8	5.7	.168	.144
Quebec															
CANSAP															
Maniwaki	2B	10		2.40	2.36	.37	2.49	.82	1.06	1.85	2.5	3.0	4.0	.156	.221

Nitrate

State / Network / Site Name	Site Rep	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
Alabama															
UAPSP															
Selma	2A	102		.59	.81	.90	1.24	1.30	.11	.40	0.8	1.4	7.5	.219*	.061
Arizona															
NADP															
Grand Canyon		36		.68	.70	.97	1.09	1.13	.09	.37	0.7	1.3	4.9	.254*	.083
Organ Pipe Mon.		26	2	.52	.38	1.64	.95	1.17	.02	.14	0.5	1.5	4.4	.242*	.109
Arkansas															
NADP															
Fayetteville	2B	40		1.02	1.24	.68	1.59	1.37	.40	.78	1.1	1.9	8.0	.192*	.135
Warren 2WSW	2	42		.79	1.02	.74	1.31	.95	.24	.67	1.0	1.8	3.9	.198*	.076
California															
NADP															
Davis Site		27		.64	.86	.69	1.14	1.08	.32	.52	0.8	1.2	4.9	.248*	.152
Hopland (Ukiah)		34	4	.26	.22	1.44	.45	.48	.02	.13	0.2	0.6	1.8	.203*	.109
Sequoia Nat. Park		28	1	.38	.48	1.48	1.16	1.61	.02	.18	0.5	1.5	7.0	.239*	.078
Tanbark Flat		27		.82	1.45	1.24	3.23	4.80	.22	.49	1.2	4.5	20.3	.303*	.145
Yosemite		33	1	.31	.46	1.28	.86	.86	.02	.21	0.4	1.5	3.0	.227*	.127
Colorado															
NADP															
Manitou		38		1.07	1.07	.95	1.46	1.02	.03	.76	1.1	2.1	4.4	.152*	.152*
Mesa Verde		36		.70	.82	.78	1.15	1.13	.27	.43	0.7	1.7	5.2	.266*	.164*
Pawnee	2A	34		1.17	1.34	.70	1.70	1.35	.17	.93	1.3	1.7	6.5	.285*	.154*
Rocky Mt. Nat Park		46		.89	.92	.78	1.26	1.12	.20	.50	0.9	1.5	5.8	.187*	.094
Sand Spring		44		.91	1.19	.79	1.73	2.37	.23	.70	1.1	2.1	15.8	.264*	.064
UAPSP															
Yampa	1	110		.77	.67	.72	.84	.56	.08	.40	0.7	1.2	2.6	.134*	.082
Delaware															
MAP3s/PCN															
Lewes	2A	65		1.09	1.00	1.09	1.69	1.66	.09	.39	1.0	2.5	7.4	.189*	.095
Florida															
NADP															
Bradford Forest	2A	40	1	.65	.72	.98	1.01	.83	.02	.48	0.7	1.1	3.3	.228*	.131
Georgia															
NADP															
Georgia Station	2A	40		.72	.79	.94	1.09	.85	.03	.52	0.8	1.4	4.2	.179*	.157*
UAPSP															
Uvalda	2A	87		.53	.63	.83	.89	.89	.12	.35	0.7	1.0	5.0	.207*	.055
Hawaii															
NADP															
Mauna Loa		15	6	.04	.05	1.57	.16	.25	.02	.02	0.0	0.2	0.7	.273*	.206
Illinois															
NADP															
Argonne	3	41		1.93	2.19	.65	2.74	2.19	.64	1.47	2.0	3.0	10.7	.225*	.088
Dixon Springs	2B	40		1.02	1.26	.60	1.48	.82	.24	.81	1.2	2.3	3.7	.156*	.094
NIARC	1	40		1.37	1.70	.81	2.13	1.33	.05	1.21	1.8	2.5	5.8	.196*	.146*
Salem	1	36		1.11	1.41	.63	1.79	1.82	.32	1.02	1.3	2.0	11.3	.249*	.140
Southern Ill U	2B	42		1.06	1.33	.66	1.66	1.26	.27	.86	1.3	2.2	7.1	.194*	.083
Indiana															
NADP															

Nitrate

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							Concentration			Percentiles mg/l					
Indiana Dunes	3	46		1.81	2.11	.63	2.64	2.18	.64	1.46	1.9	2.9	10.7	.236*	.133*
Purdue U Ag Farm	2	43		1.59	2.25	.73	3.17	4.52	.65	1.47	2.2	3.6	30.5	.289*	.104
UAPSP															
Fort Wayne	2A	92		1.58	1.91	.61	2.29	1.47	.35	1.19	2.0	3.2	9.0	.150*	.059
Rockport	3	84		1.07	1.21	.79	1.62	1.29	.19	.71	1.3	2.1	7.1	.157*	.047
Kansas															
NADP															
Konza Prairie	2	39		1.34	1.65	.73	2.27	2.53	.42	1.04	1.5	2.2	13.6	.293*	.123
UAPSP															
Lancaster	2A	70		1.08	1.21	.57	1.42	.89	.22	.86	1.2	1.8	6.0	.148*	.066
Kentucky															
UAPSP															
Morehead	2A	121		1.53	1.65	.87	2.37	2.21	.26	.83	1.7	2.8	11.5	.184*	.057
Maine															
NADP															
Greenville Station	2B	45		.54	.51	.89	.73	.64	.11	.24	0.6	0.9	2.8	.167*	.073
UAPSP															
Winterport	2A	100	2	.47	.58	1.39	1.30	1.66	-.01	.21	0.5	1.7	7.6	.221*	
Massachusetts															
NADP															
East	3	46	2	.83	.79	1.34	1.42	1.40	.02	.39	0.9	2.2	6.3	.164*	.088
UAPSP															
Turners Falls	2A	93		1.14	1.17	.94	1.81	2.00	.21	.60	1.2	2.3	14.0	.212*	.055
Michigan															
NADP															
Douglas Lake	1	39		1.46	1.68	.58	1.99	1.29	.48	1.21	1.7	2.2	6.9	.223*	.112
Kellogg	2A	38		2.11	2.80	.68	3.55	2.84	.87	1.69	2.7	4.2	14.5	.242*	.122
Wellston	2A	46		1.78	1.92	.62	2.35	1.68	.56	1.30	1.7	2.8	8.3	.191*	.093
UAPSP															
Gaylord	2A	97		1.36	1.21	.90	1.75	1.66	.08	.72	1.2	2.3	9.2	.202*	.053
Minnesota															
NADP															
Fernberg	1	41		.80	.97	.90	1.41	1.25	.12	.58	0.9	2.1	4.7	.270*	.113
Marcell	2B	37	1	1.17	1.26	1.09	1.91	2.06	.02	.89	1.3	2.1	9.0	.288*	.159*
Mississippi															
NADP															
Meridian	3	38	1	.66	.68	.98	.91	.58	.02	.46	0.9	1.4	2.5	.130	.131
UAPSP															
Clinton	2A	109		.72	.92	.83	1.29	1.15	.11	.56	0.9	1.4	4.9	.218*	.061
Missouri															
NADP															
Ashland	2	45	1	1.32	1.56	.84	2.17	2.04	.27	1.03	1.4	2.7	11.5	.193*	.073
[illegible]iversity Forest	2	41		1.04	1.26	.68	1.54	.94	.28	.81	1.3	2.3	4.4	.150*	.075
[illegible]na															
NADP															
Glacier Nat Park		41	2	.34	.39	.87	.50	.33	.02	.27	0.4	0.6	1.6	.151*	.136
Nebraska															
NADP															
Mead	2	36		1.39	1.75	.58	2.09	1.39	.69	1.02	1.6	2.5	5.9	.169*	.093
New Hampshire															

Nitrate

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NADP															
Hubbard Brook	1	45		1.18	1.02	.82	1.35	1.03	.06	.70	1.1	1.6	5.2	.220*	.143*
New Mexico															
NADP															
Bandelier		36	1	.90	.78	1.20	1.35	1.58	.02	.48	0.9	1.5	7.5	.281*	.114
CUBA		36		.89	.86	.77	1.13	.87	.19	.47	0.9	1.6	4.0	.153*	.113
New York															
NADP															
Aurora	2A	48		1.82	1.92	.67	2.39	1.67	.47	1.22	1.8	3.2	7.5	.200*	.092
Bennett Bridge	2A	46		1.96	2.08	.79	3.14	4.76	.30	1.46	1.9	2.9	28.4	.343*	.155*
Chautauqua	2A	44		1.01	1.03	.58	2.13	1.17	.47	1.26	1.9	3.0	5.8	.145*	.067
Huntington	2B	44		1.25	1.36	.76	1.89	2.02	.37	.68	1.4	2.1	11.9	.264*	.089
Jasper	2A	45		1.44	1.65	.65	2.05	1.48	.43	1.02	1.4	2.8	7.7	.195*	.114
Knobit	2A	37		1.24	1.29	1.01	2.09	2.18	.21	.55	1.3	3.0	10.0	.194*	.109
Stilwell Lake	2B	43		1.16	1.59	.91	2.45	2.60	.45	.74	1.3	2.9	12.6	.221*	.119
MAP3s/PCN															
Brookhaven	2B	68		.91	1.01	1.08	1.80	2.50	.14	.51	1.1	2.2	17.4	.253*	.066
Ithaca	2A	71		1.68	1.90	.69	2.46	2.24	.38	1.24	1.8	3.1	16.1	.210*	.092
Whiteface	1	105		1.08	1.23	.88	1.86	2.18	.18	.65	1.2	2.0	16.1	.249*	.066
UAPSP															
Big Moose	1	156		1.40	1.45	.98	2.23	2.14	.11	.76	1.4	3.2	13.6	.169*	.042
North Carolina															
NADP															
Clinton Station	2A	40		.78	.84	.97	1.25	1.17	.03	.42	0.8	1.9	5.3	.214*	.092
Finley (A)	2A	42		1.12	1.20	.90	1.73	1.46	.20	.56	1.1	2.4	6.4	.188*	.116
Lewiston	2A	42		1.16	1.25	.97	2.03	2.42	.23	.61	1.0	2.3	11.6	.236*	.126
Piedmont Station	2A	44		1.09	1.23	.74	1.59	1.14	.28	.76	1.2	2.5	4.3	.203*	.103
UAPSP															
Raleigh	3	80	1	.92	.92	1.07	1.46	1.44	.00	.48	0.9	2.2	7.6	.192*	
Ohio															
NADP															
Caldwell	2B	47		1.59	1.88	.63	2.33	1.77	.49	1.20	1.7	2.7	7.6	.248*	.125
Delaware	2A	48		1.59	2.14	.70	2.80	2.51	.46	1.35	2.0	3.2	11.7	.217*	.087
Wooster	3	44		1.73	1.76	.62	2.12	1.42	.59	1.12	1.7	2.8	7.6	.154*	.057
UAPSP															
McArthur	2A	121		1.33	1.61	.79	2.19	1.95	.27	.94	1.5	3.3	14.1	.187*	.079
Zanesville	3	118		1.37	1.65	.70	2.11	1.57	.44	.98	1.6	2.9	7.5	.151*	.088*
Oklahoma															
NADP															
Clayton Lake		38		1.12	1.36	.67	1.71	1.32	.39	.97	1.2	2.1	6.5	.221*	.124
Oregon															
NADP															
Lost Creek Dam		34	2	.27	.26	1.26	.46	.51	.02	.13	0.3	0.5	2.0	.284*	.102
Pennsylvania															
NADP															
Kane	2A	42	1	1.49	1.41	1.01	1.91	1.35	.02	.83	1.6	2.3	6.1	.155*	.121
Leading Ridge	1	46		1.64	1.64	.80	2.23	1.86	.32	.86	1.8	2.7	8.5	.199*	.064
MAP3s/PCN															
Penn State	2B	66		1.67	1.75	.73	2.20	1.48	.24	1.29	1.9	2.9	6.2	.187*	.11?*
UAPSP															

Nitrate

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Scranton	2A	101		1.26	1.55	.85	2.18	1.96	.20	.74	1.7	2.9	11.5	.161*	.079
South Carolina															
NADP															
Clemson	3	43		.91	1.31	.86	1.88	1.73	.25	.58	1.3	2.5	7.9	.200*	.084
South Dakota															
UAPSP															
Brookings	2A	52		1.09	1.10	.68	1.34	.77	.17	.66	1.3	1.8	3.1	.111	.106
Tennessee															
NADP															
Walker Branch	2A	43	1	.88	.92	1.01	1.32	1.16	.02	.55	1.0	1.5	5.4	.209*	.117
MAP3s/PCN															
Oak Ridge	2H	60		.93	1.19	.86	1.71	1.56	.19	.59	1.2	2.2	8.1	.207*	.049
UAPSP															
Alamo	2H	44		.63	.81	.75	1.06	.78	.23	.41	1.0	1.4	3.2	.152*	.119
Texas															
NADP															
Forest Seed Ctr	2	39	1	.70	.91	1.12	1.42	1.41	.02	.48	1.0	1.8	6.4	.199*	.123
K-Bar	2	29	1	.63	.70	1.24	1.17	1.11	.02	.44	0.8	1.3	3.9	.220*	.118
Longview	2	37		.81	1.10	.77	1.53	1.57	.33	.62	1.0	1.8	8.2	.226*	.085
UAPSP															
Marshall	2A	65		.74	.96	.72	1.25	1.02	.20	.63	1.0	1.5	6.2	.172*	.068
Vermont															
NADP															
Bennington	2A	47		1.24	1.22	.84	1.69	1.49	.19	.59	1.4	2.2	7.5	.195*	.108
UAPSP															
Underhill Center	2A	145	1	.95	1.06	1.11	1.79	1.97	-.01	.45	1.3	2.1	11.0	.202*	
Virginia															
MAP3s/PCN															
Virginia	2A	51		1.20	1.37	.71	1.77	1.37	.44	.81	1.4	2.4	5.9	.169*	.081
West Virginia															
NADP															
Parsons	2A	49		1.39	1.36	.77	1.80	1.36	.26	.72	1.4	2.5	5.8	.168*	.091
Wisconsin															
NADP															
Lake Dubay	2	42		1.81	2.01	.55	2.39	1.81	.80	1.34	2.0	2.5	10.9	.251*	.125
Spooner	1	41	1	1.34	1.29	.95	1.64	1.00	.02	.99	1.2	2.1	4.2	.166*	.162*
Trout Lake	1	40		1.12	1.41	.77	1.90	1.70	.25	.91	1.2	2.3	7.5	.223*	.114
WISC															
Legend Lake		73		1.83	1.67	.74	2.18	1.75	.28	.99	2.0	2.8	10.5	.158*	.110*
Round Lake	1	102		1.17	1.01	.87	1.35	.93	.09	.61	1.3	1.8	6.0	.095*	.146*
Wyoming															
NADP															
Newcastle		41	1	1.02	.93	1.03	1.35	1.25	.02	.54	1.0	1.5	6.4	.242*	.101
American Samoa															
NADP															
American Samoa		48	37	.02	.01	.79	.02	.03	.02	.02	0.0	0.0	0.1	.437*	.458*
Alberta															
CANSAP															
Fort McMurray		10	3	.57	.18	2.44	.78	.96	.01	.01	0.4	1.4	2.5	.255	.209
British Columbia															

Nitrate

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Concentration									Percentiles mg/l						
CANSAP															
Kelowna		10		.56	.52	.66	.60	.28	.09	.48	0.6	0.7	1.2	.198	.312*
Port Hardy		12	7	.06	.03	1.82	.11	.17	.01	.01	0.0	0.2	0.6	.304*	.364*
Revelstoke		12	2	.23	.13	1.57	.24	.19	.01	.06	0.2	0.4	0.5	.131	.216
Vancouver		12		.98	1.24	.67	1.50	.95	.43	.77	1.3	2.0	3.5	.155	.116
New Brunswick															
CANSAP															
Acadia Fes	3	12		.78	.75	.60	.86	.42	.17	.64	0.8	1.0	1.7	.182	.209
Newfoundland															
CANSAP															
Stephenville	3	10		.60	.48	.51	.54	.26	.24	.27	0.5	0.7	1.0	.195	.197
Nova Scotia															
CANSAP															
Kejimkujik (a)	2A	12	1	.34	.25	1.32	.39	.30	.01	.15	0.4	0.6	1.1	.163	.201
Truro	3	11	3	.43	.16	2.13	.46	.42	.01	.01	0.5	0.8	1.2	.170	.241
Ontario															
CANSAP															
Dorset (a)	1	12		1.99	2.16	.34	2.29	.96	1.38	1.70	2.0	2.6	5.0	.217	.150
Mount Forest (a)	3	12		2.58	2.78	.52	3.18	1.90	1.24	2.04	2.4	4.4	8.2	.234	.183
APIOS-D															
Balsam Lake	1	107	1	1.67	1.67	.99	2.53	3.04	.04	1.02	1.8	3.2	27.5	.207*	.081
Charleston Lake	2A	84		1.36	1.17	.95	1.76	1.58	.13	.59	1.1	2.6	7.3	.184*	.091
Lac Le Croix (b)	2A	47	4	.73	.70	1.21	1.15	1.09	.04	.49	0.8	1.4	4.8	.224*	.156*
Longwoods (b)	2B	88	1	1.75	1.86	.80	2.40	1.71	.09	1.34	1.9	3.1	9.3	.145*	.099*
Melbourne	2A	88	1	2.03	2.08	.85	2.74	1.97	.04	1.37	2.1	3.7	9.3	.153*	.083
North Easthope	2A	101		1.58	1.76	.89	2.50	2.18	.09	1.06	1.8	2.9	9.3	.210*	.068
Raven Lake	1	123	1	1.93	1.75	1.09	2.84	3.41	.04	1.02	2.2	3.7	26.1	.206*	.091*
Wellesley	2B	103		1.57	1.82	.78	2.43	1.93	.22	1.15	1.8	3.1	8.7	.189*	.073
APIOS-C															
Colchester	2A	11		2.23	2.44	.53	2.76	1.47	.84	1.73	2.5	3.5	6.3	.184	.134
Coldwater	1	13		2.14	2.01	.42	2.19	.98	1.02	1.59	2.1	2.5	4.5	.212	.142
Dorion	1	13		1.02	.94	.65	1.11	.64	.31	.58	1.1	1.4	2.7	.168	.193
Dorset (c)	1	13		1.93	2.00	.28	2.07	.61	1.20	1.68	1.9	2.3	3.7	.175	.128
Expt. Lake Area	2A	12		1.11	1.18	.50	1.32	.60	.44	.99	1.2	1.8	2.5	.189	.181
Gowganda	2A	12		1.15	1.17	.68	1.44	.95	.40	.63	1.2	2.0	3.3	.165	.133
Huron Park	2A	12		2.52	2.65	.33	2.79	.98	1.64	2.10	2.4	3.6	4.9	.208	.187
Killarney	2A	12		2.32	2.46	.40	2.64	1.05	1.24	1.99	2.5	3.1	5.0	.144	.117
Mattawa	2A	12		1.33	1.38	.22	1.41	.33	.97	1.12	1.4	1.5	2.1	.217	.178
Merlin	2A	12		2.78	2.98	.30	3.12	1.02	2.13	2.25	2.9	4.0	5.4	.174	.145
Palmerston	2A	13		2.25	2.42	.31	2.53	.80	1.46	1.93	2.2	3.3	4.1	.289*	.254*
Port Stanley	2B	11		2.50	2.67	.49	2.94	1.28	.84	2.17	2.7	3.2	5.4	.242	.177
Quetico Centre	1	11		.98	1.09	.55	1.27	.81	.53	.71	0.9	1.8	3.3	.208	.159
Shallow Lake	2A	12		2.51	2.58	.44	2.81	1.18	1.24	1.79	2.9	3.4	5.4	.126	.176
Smith's Falls	3	12		1.70	1.71	.51	1.92	.98	.71	1.47	1.6	2.5	3.9	.262*	.213
Waterloo	2A	12		2.24	2.20	.32	2.31	.79	1.37	1.69	2.2	2.9	3.9	.256*	.195
Wilberforce	1	13		1.98	2.04	.29	2.13	.63	1.37	1.57	1.9	2.8	3.1	.253*	.214
Quebec															
CANSAP															
Maniwaki	2B	10		1.61	1.65	.29	1.71	.51	1.02	1.40	1.6	1.9	2.9	.177	.140

Ammonium

State / Network / Site Name	Site Rep	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	GSD	Arithmetic Mean mg/l	SD mg/l	Concentration mg/l Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
Alabama															
UAPSP															
Selma	2A	103	5	.17	.15	1.20	.32	.68	.00	.06	0.1	0.3	6.3	.320*	.054
Arizona															
NADP															
Grand Canyon		36	8	.09	.07	1.23	.14	.19	.02	.04	0.1	0.2	1.0	.261*	.110
Organ Pipe Mon.		26	8	.14	.09	1.59	.22	.25	.02	.02	0.1	0.4	0.9	.212*	.168
Arkansas															
NADP															
Fayetteville	2B	40		.39	.40	.85	.56	.45	.05	.22	0.4	0.8	2.0	.154*	.080
Warren 2WSW	2	42	3	.21	.18	1.12	.29	.28	.02	.10	0.2	0.4	1.2	.224*	.077
California															
NADP															
Davis Site		27		.37	.42	.74	.52	.35	.03	.32	0.5	0.6	1.8	.163	.159
Hopland (Ukiah)		34	15	.05	.04	1.18	.06	.07	.02	.02	0.0	0.1	0.3	.224*	.248*
Sequoia Nat. Park		28	4	.13	.13	1.50	.33	.45	.02	.05	0.1	0.4	1.7	.321*	.109
Tanbark Flat		27		.17	.22	1.22	.45	.58	.03	.11	0.2	0.8	2.4	.332*	.196*
Yosemite		33	8	.09	.09	1.48	.20	.24	.02	.03	0.1	0.3	0.8	.260*	.148
Colorado															
NADP															
Manitou		38	6	.10	.12	1.25	.22	.31	.02	.07	0.2	0.3	1.9	.281*	.128
Mesa Verde		36	7	.09	.07	1.11	.12	.13	.02	.05	0.1	0.2	0.7	.222*	.108
Pawnee	2A	34	4	.50	.36	1.27	.62	.74	.02	.29	0.5	0.7	4.0	.234*	.193*
Rocky Mt. Nat Park		46	7	.16	.11	1.21	.22	.29	.02	.06	0.1	0.3	1.5	.238*	.091
Sand Spring		44	2	.16	.17	1.12	.28	.30	.02	.08	0.2	0.3	1.5	.238*	.112
UAPSP															
Yampa	1	110	1	.20	.18	.77	.24	.16	.02	.11	0.2	0.3	0.8	.116*	.057
Delaware															
MAP3s/PCN															
Lewes	2A	65	3	.21	.13	1.28	.25	.28	.02	.05	0.1	0.4	1.3	.207*	.093
Florida															
NADP															
Bradford Forest	2A	40	7	.10	.08	1.30	.18	.32	.02	.04	0.1	0.2	1.9	.321*	.092
Georgia															
NADP															
Georgia Station	2A	40	7	.20	.13	1.34	.26	.37	.02	.09	0.1	0.3	2.0	.258*	.111
UAPSP															
Uvalda	2A	87	8	.11	.10	1.08	.17	.19	.01	.06	0.1	0.2	1.2	.199*	.078
Hawaii															
NADP															
Mauna Loa		15	11	.02	.02	1.42	.09	.22	.02	.02	0.0	0.1	0.8	.381*	.387*
Illinois															
NADP															
Argonne	3	41		.47	.45	.73	.58	.44	.09	.24	0.4	0.7	2.0	.154*	.061
Dixon Springs	2B	40	1	.27	.28	.92	.40	.39	.02	.16	0.3	0.5	1.9	.207*	.074
NIARC	1	40	2	.36	.35	1.10	.51	.37	.02	.22	0.4	0.6	1.4	.128	.149*
Salem	1	36		.26	.28	.75	.37	.40	.07	.16	0.3	0.4	2.4	.224*	.071
Southern Ill U	2B	42		.30	.27	.81	.36	.32	.05	.16	0.3	0.5	1.6	.167*	.053
Indiana															
NADP															

Ammonium

State / Network / Site Name	Site Rep	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Concentration mg/l Min	Percentiles 25%	Percentiles 50%	Percentiles 75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
Indiana Dunes	3	46	1	.42	.35	.55	.50	.44	.02	.24	0.4	0.6	2.3	.203*	.101
Purdue U Ag Farm	2	43	1	.37	.36	.97	.51	.41	.02	.19	0.4	0.8	2.0	.152*	.099
UAPSP															
Fort Wayne	2A	91	1	.37	.36	.90	.51	.41	.01	.19	0.4	0.7	2.5	.149*	.056
Rockport	3	85		.29	.25	.77	.33	.23	.05	.15	0.3	0.5	1.0	.135*	.052
Kansas															
NADP															
Konza Prairie	2	39		.37	.38	.84	.54	.61	.06	.20	0.4	0.6	3.6	.237*	.131
UAPSP															
Lancaster	2A	78		.38	.38	.81	.52	.46	.04	.22	0.4	0.6	2.4	.216*	.067
Kentucky															
UAPSP															
Morehead	2A	122	5	.44	.25	1.29	.55	1.24	-.01	.11	0.3	0.7	13.1	.328*	
Maine															
NADP															
Greenville Station	2B	45	13	.11	.06	1.43	.15	.23	.02	.02	0.1	0.2	1.2	.277*	.156*
UAPSP															
Winterport	2A	97	26	.08	.07	1.46	.18	.29	.01	.02	0.1	0.2	1.6	.278*	.093*
Massachusetts															
NADP															
East	3	46	10	.10	.07	1.29	.14	.17	.02	.03	0.1	0.2	0.8	.265*	.117
UAPSP															
Turners Falls	2A	92	8	.16	.14	1.30	.27	.31	.01	.06	0.1	0.4	1.6	.204*	.073
Michigan															
NADP															
Douglas Lake	1	39	1	.27	.23	1.03	.36	.41	.02	.13	0.3	0.4	2.4	.213*	.111
Kellogg	2A	38	1	.43	.48	.83	.66	.57	.09	.27	0.5	0.8	2.1	.220*	.072
Wellston	2A	46		.35	.31	.91	.44	.34	.03	.18	0.4	0.6	1.6	.125	.109
UAPSP															
Gaylord	2A	96	4	.30	.22	1.06	.35	.32	.00	.12	0.3	0.4	1.8	.148*	.087
Minnesota															
NADP															
Fernberg	1	41	9	.23	.12	1.63	.36	.58	.02	.05	0.2	0.4	2.7	.284*	.111
Marcell	2B	37	2	.39	.33	1.29	.63	.84	.02	.20	0.4	0.7	4.2	.325*	.161*
Mississippi															
NADP															
Meridian	3	38	4	.15	.13	1.16	.20	.16	.02	.06	0.2	0.3	0.7	.129	.159*
UAPSP															
Clinton	2A	110	4	.24	.20	1.12	.34	.39	.01	.10	0.2	0.4	2.4	.207*	.080
Missouri															
NADP															
Ashland	3	45	4	.34	.25	1.17	.42	.42	.02	.16	0.3	0.5	1.7	.223*	.100
University Forest	2	41	4	.27	.19	1.16	.31	.27	.02	.13	0.3	0.4	1.3	.174*	.126
Montana															
NADP															
Glacier Nat Park		41	6	.07	.07	1.04	.11	.10	.02	.04	0.1	0.2	0.4	.213*	.083
Nebraska															
NADP															
Mead	2	36	1	.67	.65	1.14	1.00	.93	.02	.42	0.8	1.3	5.2	.183*	.147
New Hampshire															

Ammonium

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NADP															
Hubbard Brook	1	45	8	.17	.10	1.41	.22	.25	.02	.04	0.1	0.3	1.2	.213*	.123
New Mexico															
NADP															
Bandelier		36	7	.16	.09	1.36	.20	.26	.02	.05	0.1	0.3	1.3	.295*	.122
CUBA		36	4	.17	.11	1.11	.18	.18	.02	.07	0.1	0.2	0.8	.246*	.090
New York															
NADP															
Aurora	2A	48	2	.29	.23	1.15	.39	.39	.02	.10	0.2	0.6	1.6	.169*	.068
Bennett Bridge	2A	46	1	.30	.27	1.00	.41	.41	.02	.13	0.3	0.6	2.3	.176*	.075
Chautauqua	2A	44	4	.30	.21	1.21	.33	.25	.02	.13	0.3	0.4	1.0	.109	.133
Huntington	2B	44	1	.22	.19	1.11	.33	.37	.02	.08	0.2	0.5	1.6	.205*	.107
Jasper	2A	45	1	.22	.19	.96	.28	.25	.02	.09	0.2	0.4	1.1	.155*	.078
Knobit	2A	37	8	.14	.09	1.54	.23	.27	.02	.03	0.1	0.3	1.0	.220*	.155*
Stilwell Lake	2B	43	5	.12	.13	1.32	.26	.31	.02	.07	0.1	0.4	1.7	.223*	.109
MAP3s/PCN															
Brookhaven	2B	69	2	.11	.11	1.41	.30	.54	.01	.04	0.1	0.2	2.7	.316*	.071
Ithaca	2A	71		.31	.21	1.17	.39	.45	.02	.10	0.2	0.5	2.2	.217*	.051
Whiteface	1	105	4	.20	.14	1.50	.33	.47	.01	.05	0.2	0.4	2.9	.248*	.091*
UAPSP															
Big Moose	1	158	10	.24	.18	1.34	.38	.50	-.02	.06	0.2	0.5	3.3	.220*	
North Carolina															
NADP															
Clinton Station	2A	40	1	.17	.17	1.08	.30	.35	.02	.09	0.1	0.4	1.8	.238*	.141*
Finley (A)	2A	42	2	.32	.21	1.19	.41	.74	.02	.10	0.2	0.6	4.7	.296*	.083
Lewiston	2A	42		.28	.23	1.11	.41	.48	.03	.09	0.2	0.5	2.2	.212*	.111
Piedmont Station	2A	44	2	.31	.24	1.25	.58	1.32	.02	.11	0.2	0.4	7.7	.375*	.113
UAPSP															
Raleigh	3	81	2	.25	.21	1.00	.32	.32	.01	.11	0.2	0.4	1.5	.239*	.086
Ohio															
NADP															
Caldwell	2B	47	5	.25	.18	1.30	.33	.36	.02	.10	0.3	0.4	1.9	.236*	.154*
Delaware	2A	48	2	.31	.28	1.16	.49	.60	.02	.13	0.4	0.5	2.9	.257*	.110
Wooster	3	44		.37	.31	.88	.43	.36	.06	.15	0.4	0.6	1.5	.184*	.084
UAPSP															
McArthur	2A	121	7	.23	.19	1.16	.32	.34	.01	.10	0.2	0.4	2.3	.186*	.069
Zanesville	3	116	2	.26	.22	1.01	.35	.34	.02	.10	0.2	0.5	2.0	.163*	.077
Oklahoma															
NADP															
Clayton Lake		38	1	.35	.27	.90	.36	.24	.02	.18	0.3	0.5	0.9	.114	.105
Oregon															
NADP															
Lost Creek Dam		34	23	.02	.02	1.28	.09	.30	.02	.02	0.0	0.1	1.7	.402*	.390*
Pennsylvania															
NADP															
Kane	2A	42	6	.25	.16	1.33	.29	.28	.02	.09	0.2	0.4	1.2	.166*	.137*
Leading Ridge	1	46	3	.25	.18	1.21	.31	.34	.02	.09	0.2	0.4	1.6	.196*	.057
MAP3s/PCN															
Penn State	2B	66	1	.23	.16	1.15	.28	.28	.01	.08	0.2	0.4	1.1	.241*	.073
UAPSP															

Ammonium

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Scranton	2A	101	6	.16	.14	1.20	.26	.31	.01	.06	0.1	0.3	1.8	.224*	.060
South Carolina															
NADP															
Clemson	3	43	1	.20	.21	1.22	.39	.46	.01	.09	0.3	0.5	2.1	.243*	.109
South Dakota															
UAPSP															
Brookings	2A	53		.63	.65	.66	.78	.45	.12	.43	0.8	1.0	2.0	.099	.117
Tennessee															
NADP															
Walker Branch	2A	43	6	.15	.11	1.35	.22	.23	.02	.04	0.1	0.3	0.9	.194*	.098
MAP3s/PCN															
Oak Ridge	2B	60	5	.15	.12	1.52	.28	.33	.01	.04	0.2	0.4	1.5	.208*	.109
UAPSP															
Alamo	2B	44		.21	.22	1.05	.60	2.22	.03	.11	0.2	0.4	15.0	.434*	.082
Texas															
NADP															
Forest Seed Ctr	2	39	1	.17	.10	1.18	.35	.46	.02	.09	0.2	0.3	1.8	.295*	.096
K-Bar	2	29	3	.26	.20	1.22	.35	.35	.02	.11	0.3	0.5	1.5	.213*	.115
Longview	2	37	2	.27	.20	1.03	.32	.35	.02	.11	0.2	0.4	1.5	.265*	.116
UAPSP															
Marshall	2A	67	2	.23	.19	1.07	.33	.37	.01	.10	0.2	0.4	1.8	.211*	.074
Vermont															
NADP															
Bennington	2A	47	9	.21	.12	1.57	.32	.55	.02	.04	0.2	0.4	3.6	.295*	.111
UAPSP															
Underhill Center	2A	145	25	.19	.15	1.56	.36	.46	.00	.06	0.2	0.5	2.5	.218*	
Virginia															
MAP3s/PCN															
Virginia	2A	51	1	.23	.18	1.15	.29	.26	.01	.08	0.2	0.4	1.0	.137*	.108
West Virginia															
NADP															
Parsons	2A	49	0	.21	.12	1.36	.23	.26	.02	.06	0.2	0.4	1.6	.206*	.114
Wisconsin															
NADP															
Lake Dubay	2	42	2	.51	.41	.95	.57	.51	.02	.26	0.5	0.7	2.5	.268*	.139*
Spooner	1	41	5	.39	.24	1.39	.44	.43	.02	.13	0.3	0.6	1.6	.180*	.137
Trout Lake	1	40	5	.27	.20	1.48	.42	.47	.02	.10	0.3	0.5	2.0	.207*	.114
WISC															
Legend Lake		74	1	.51	.40	.91	.56	.41	.05	.25	0.5	0.8	2.1	.112*	.109*
Round Lake	1	102	0	.42	.10	1.65	.40	.36	.01	.08	0.3	0.6	1.5	.139*	.165*
Wyoming															
NADP															
Newcastle		41	7	.36	.17	1.40	.36	.49	.02	.07	0.2	0.5	2.4	.234*	.084
American Samoa															
NADP															
American Samoa		48	36	.02	.01	.64	.02	.02	.02	.02	0.0	0.0	0.1	.425*	.445*
Alberta															
CANSAP															
Fort McMurray		11	4	.05	.01	1.34	.03	.05	.01	.01	0.0	0.0	0.2	.309*	.201
British Columbia															

Ammonium

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CANSAP															
Kelowna		10	1	.16	.09	1.60	.18	.14	.01	.07	0.2	0.2	0.5	.200	.270*
Port Hardy		12	6	.05	.02	2.03	.12	.29	.01	.01	0.0	0.1	1.0	.354*	.270*
Revelstoke		12	3	.04	.02	1.36	.03	.04	.01	.01	0.0	0.1	0.1	.244*	.180
Vancouver		12		.15	.14	1.21	.26	.26	.03	.04	0.2	0.5	0.7	.249*	.141
New Brunswick															
CANSAP															
Acadia Fes	3	12		.17	.14	.92	.19	.15	.05	.05	0.1	0.4	0.4	.231	.247*
Newfoundland															
CANSAP															
Stephenville	3	10	1	.10	.04	1.57	.09	.08	.01	.01	0.1	0.2	0.2	.217	.247
Nova Scotia															
CANSAP															
Kejimkujik (a)	2A	12	6	.06	.01	1.71	.05	.11	.01	.01	0.0	0.1	0.4	.331*	.320*
Truro	3	11	3	.11	.04	1.95	.12	.16	.01	.01	0.0	0.2	0.5	.252*	.171
Ontario															
CANSAP															
Dorset (a)	1	12		.24	.24	.78	.34	.37	.08	.15	0.3	0.3	1.4	.354*	.198
Mount Forest (a)	3	12		.82	.83	.60	1.01	.78	.36	.57	0.7	1.0	2.9	.357*	.236
APIOS-C															
Colchester	2A	11		.54	.51	.60	.60	.34	.19	.27	0.6	0.8	1.4	.139	.172
Coldwater	1	12		.60	.47	.92	.69	.68	.09	.23	0.5	0.8	2.1	.295*	.134
Dorion	1	11		.24	.17	1.49	.29	.20	.01	.13	0.3	0.5	0.6	.157	.260*
Dorset (c)	1	13		.38	.34	.71	.42	.26	.06	.23	0.3	0.6	0.9	.184	.164
Gowganda	2A	12	1	.27	.16	1.69	.29	.24	.00	.10	0.2	0.4	0.9	.182	.264*
Huron Park	2A	12		.80	.79	.48	.88	.41	.34	.64	0.8	1.0	1.7	.216	.148
Killarney	2A	12		.49	.47	.50	.53	.24	.18	.35	0.5	0.8	0.9	.165	.123
Mattawa	2A	12		.27	.24	.65	.30	.25	.11	.14	0.2	0.4	1.0	.247*	.171
Merlin	2A	12		.51	.46	.71	.55	.28	.08	.32	0.6	0.8	1.0	.173	.167
Palmerston	2A	13		.77	.76	.45	.83	.34	.32	.59	0.8	1.0	1.4	.122	.124
Port Stanley	2B	11		.64	.61	.63	.70	.29	.12	.54	0.8	0.9	1.1	.130	.242
Shallow Lake	2A	12		.58	.58	.51	.64	.28	.21	.38	0.6	0.9	1.0	.140	.161
Smith's Falls	3	12		.35	.31	.93	.45	.39	.05	.17	0.3	0.8	1.1	.270*	.161
Waterloo	2A	12		.79	.65	.66	.80	.61	.18	.43	0.6	0.9	2.5	.279*	.155
Wilberforce	1	13		.38	.35	.61	.40	.19	.07	.26	0.4	0.6	0.7	.146	.184
Quebec															
CANSAP															
Maniwaki	2B	10		.47	.48	.55	.55	.33	.21	.31	0.5	0.8	1.3	.215	.115

Calcium

State / Network / Site Name	Site Rep	N	N BDL	Concentration: Wtd Mean mg/l	Geometric Mean mg/l	SD	Arithmetic Mean mg/l	SD mg/l	Min	Percentiles mg/l: 25%	50%	75%	Max	K-S D-Statistic: Gau	Log
Alabama															
UAPSP															
Selma	2A	98	18	.09	.08	1.23	.14	.17	-.02	.03	0.1	0.2	0.9	.208*	
Arizona															
NADP															
Grand Canyon		36		.26	.30	1.18	.60	.77	.05	.11	0.3	0.7	2.8	.301*	.091
Organ Pipe Mon.		26		.16	.29	1.33	.60	.71	.03	.10	0.3	0.7	2.9	.275*	.106
Arkansas															
NADP															
Fayetteville	2B	40		.31	.33	.98	.57	.93	.05	.19	0.3	0.6	5.8	.316*	.097
Warren 2WSW	2	42		.16	.18	.88	.26	.22	.04	.09	0.2	0.4	1.1	.169*	.077
California															
NADP															
Davis Site		27		.07	.10	1.10	.20	.30	.02	.04	0.1	0.2	1.3	.295*	.193*
Hopland (Ukiah)		34		.04	.06	1.02	.12	.22	.01	.03	0.1	0.1	1.2	.355*	.174*
Sequoia Nat. Park		28		.05	.08	1.24	.18	.29	.01	.03	0.1	0.2	1.5	.283*	.141
Tanbark Flat		27		.06	.11	1.36	.26	.43	.01	.04	0.1	0.3	2.1	.281*	.173*
Yosemite		33	2	.04	.06	1.48	.15	.26	.01	.01	0.1	0.2	1.4	.290*	.170*
Colorado															
NADP															
Manitou		38		.25	.27	.94	.40	.40	.03	.15	0.3	0.5	1.8	.274*	.113
Mesa Verde		36		.28	.35	1.32	.79	1.16	.04	.16	0.3	0.9	5.7	.263*	.081
Pawnee	2A	34		.29	.32	.72	.42	.37	.05	.23	0.3	0.5	1.9	.206*	.121
Rocky Mt. Nat Park		46		.22	.26	1.10	.44	.46	.03	.12	0.2	0.6	2.2	.207*	.087
Sand Spring		44		.27	.31	1.19	.76	1.68	.03	.13	0.3	0.7	10.4	.333*	.089
UAPSP															
Yampa	1	104	3	.17	.11	.99	.19	.25	.02	.07	0.1	0.2	1.5	.259*	.111*
Delaware															
MAP3s/PCN															
Lewes	2A	65	2	.12	.11	.87	.16	.15	.02	.07	0.1	0.2	0.8	.202*	.110
Florida															
NADP															
Bradford Forest	2A	40		.11	.13	.77	.18	.20	.03	.07	0.1	0.2	1.1	.228*	.067
Georgia															
NADP															
Georgia Station	2A	40		.14	.13	.90	.20	.21	.03	.06	0.1	0.3	1.0	.220*	.077
UAPSP															
Uvalda	2A	86	19	.05	.05	1.10	.09	.10	.00	.03	0.1	0.1	0.5	.214*	.067
Hawaii															
NADP															
Mauna Loa		15	1	.06	.13	1.41	.26	.29	.01	.05	0.1	0.4	1.1	.215	.124
Illinois															
NADP															
Argonne	3	41		.34	.40	.93	.62	.62	.08	.17	0.5	0.7	2.8	.258*	.099
Dixon Springs	2B	40		.18	.23	.93	.34	.33	.04	.10	0.2	0.5	1.4	.180*	.107
NIARC	1	40		.35	.35	1.08	.62	.72	.03	.18	0.3	0.7	2.6	.258*	.069
Salem	1	36		.16	.20	1.17	.40	.64	.01	.09	0.2	0.4	3.5	.296*	.096
Southern Ill U	2B	42		.19	.25	1.15	.47	.56	.03	.08	0.3	0.7	2.5	.217*	.129
Indiana															
NADP															

Calcium

State / Network / Site Name	Site Rep	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	SD	Arithmetic Mean mg/l	SD mg/l	Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
Concentration									Percentiles mg/l						
Indiana Dunes	3	46		.43	.47	1.16	.87	1.16	.05	.21	0.6	1.0	6.6	.246*	.103
Purdue U Ag Farm	2	43		.26	.36	1.31	.98	2.29	.03	.15	0.4	0.8	12.4	.340*	.073
UAPSP															
Fort Wayne	2A	88	3	.19	.18	1.14	.32	.36	.01	.08	0.2	0.4	1.8	.197*	.062
Rockport	3	82	6	.16	.13	1.26	.27	.45	.00	.05	0.1	0.3	2.9	.284*	
Kansas															
NADP															
Konza Prairie	2	39		.35	.40	1.18	.97	2.05	.05	.16	0.4	0.9	10.6	.332*	.074
UAPSP															
Lancaster	2A	70	2	.27	.22	1.05	.35	.38	.01	.11	0.2	0.5	2.2	.178*	.056
Kentucky															
UAPSP															
Morehead	2A	108	12	.20	.14	1.40	.32	.43	.00	.07	0.1	0.4	2.6	.229*	.055
Maine															
NADP															
Greenville Station	2B	45	1	.05	.05	1.15	.12	.32	.01	.03	0.1	0.1	2.1	.362*	.088
UAPSP															
Winterport	2A	95	35	.03	.03	1.04	.06	.09	.00	.02	0.0	0.1	0.7	.247*	
Massachusetts															
NADP															
East	3	46		.09	.11	.92	.17	.21	.02	.06	0.1	0.2	1.0	.290*	.141*
UAPSP															
Turners Falls	2A	90	29	.05	.04	1.14	.08	.10	.00	.02	0.0	0.1	0.6	.227*	
Michigan															
NADP															
Douglas Lake	1	39		.19	.18	.93	.29	.35	.03	.09	0.2	0.3	1.5	.302*	.119
Kellogg	2A	38		.25	.32	1.04	.58	.76	.07	.14	0.3	0.6	3.4	.309*	.121
Wellston	2A	46		.24	.22	.80	.30	.27	.05	.13	0.2	0.4	1.2	.187*	.053
UAPSP															
Gaylord	2A	93	11	.16	.09	1.25	.19	.26	.00	.04	0.1	0.2	1.3	.248*	.052
Minnesota															
NADP															
Fernberg	1	41		.16	.19	.99	.34	.53	.03	.11	0.2	0.3	2.4	.361*	.152*
Marcell	2B	37		.23	.23	.91	.35	.34	.05	.13	0.2	0.5	1.3	.305*	.151*
Mississippi															
NADP															
Meridian	3	38		.16	.14	.85	.20	.20	.02	.09	0.1	0.3	1.1	.225*	.106
UAPSP															
Clinton	2A	105	12	.17	.12	1.40	.38	1.10	-.03	.05	0.1	0.3	8.2	.365*	
Missouri															
NADP															
Ashland	2	45		.29	.38	1.13	.70	.91	.04	.20	0.4	0.8	4.5	.275*	.081
University Forest	2	41		.21	.23	.87	.32	.24	.03	.12	0.3	0.4	1.0	.128	.091
Montana															
NADP															
Glacier Nat Park		41	1	.08	.11	1.01	.20	.36	.01	.06	0.1	0.2	2.2	.317*	.134
Nebraska															
NADP															
Mead	2	36		.42	.39	1.06	.64	.70	.05	.22	0.4	0.8	3.2	.227*	.078
New Hampshire															

Calcium

State / Network / Site Name	Site Rep	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Concentration Percentiles mg/l Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
NADP															
Hubbard Brook	1	45		.07	.07	1.05	.12	.15	.01	.04	0.1	0.1	0.8	.257*	.090
New Mexico															
NADP															
Bandelier		36		.33	.34	1.18	.71	1.00	.06	.14	0.3	0.6	4.0	.304*	.132
CUBA		36		.31	.31	1.22	.76	1.75	.03	.13	0.3	0.5	10.5	.338*	.103
New York															
NADP															
Aurora	2A	48		.20	.17	1.20	.42	1.09	.02	.07	0.1	0.3	7.4	.355*	.097
Bennett Bridge	2A	46		.14	.16	.98	.28	.36	.03	.09	0.1	0.3	1.6	.301*	.152*
Chautauqua	2A	44		.17	.17	.91	.27	.37	.02	.08	0.2	0.3	2.4	.262*	.105
Huntington	2B	44		.11	.12	1.29	.26	.42	.01	.04	0.1	0.3	2.1	.278*	.066
Jasper	2A	45		.11	.14	1.04	.24	.34	.01	.08	0.1	0.3	2.1	.254*	.059
Knobit	2A	37		.08	.10	1.06	.18	.24	.01	.05	0.1	0.2	1.2	.292*	.101
Stilwell Lake	2B	43		.08	.12	1.30	.34	.62	.02	.05	0.1	0.2	2.4	.370*	.226*
MAP3s/PCN															
Brookhaven	2B	69	1	.07	.08	.94	.14	.19	.02	.04	0.1	0.1	1.0	.273*	.109*
Ithaca	2A	71	5	.10	.09	1.41	.22	.37	.00	.04	0.1	0.3	2.3	.275*	.067
Whiteface	1	105	13	.07	.07	1.35	.17	.33	.01	.03	0.1	0.1	2.4	.318*	.074
UAPSP															
Big Moose	1	146	15	.10	.09	1.13	.17	.19	-.01	.05	0.1	0.2	1.0	.214*	
North Carolina															
NADP															
Clinton Station	2A	40		.10	.12	1.02	.20	.20	.01	.06	0.1	0.3	0.8	.216*	.088
Finley (A)	2A	42		.11	.12	.96	.20	.23	.02	.06	0.1	0.2	1.2	.221*	.057
Lewiston	2A	42		.12	.15	.93	.23	.25	.02	.09	0.1	0.3	1.2	.241*	.073
Piedmont Station	2A	44		.11	.13	.93	.18	.17	.01	.07	0.1	0.2	0.8	.215*	.107
UAPSP															
Raleigh	3	79	15	.07	.07	1.29	.16	.31	-.01	.03	0.1	0.2	2.5	.297*	
Ohio															
NADP															
Caldwell	2B	47		.23	.25	1.04	.42	.49	.05	.10	0.2	0.5	1.8	.239*	.107
Delaware	2A	48		.22	.27	1.16	.50	.62	.02	.11	0.3	0.6	2.8	.236*	.049
Wooster	3	44		.20	.19	.85	.27	.28	.03	.10	0.2	0.3	1.2	.248*	.084
UAPSP															
McArthur	2A	118	14	.15	.12	1.37	.27	.41	.01	.05	0.1	0.3	2.4	.261*	.050
Zanesville	3	113	4	.17	.16	1.09	.27	.30	.01	.09	0.2	0.3	1.7	.200*	.061
Oklahoma															
NADP															
Clayton Lake		38		.29	.33	1.07	.62	1.08	.05	.14	0.3	0.7	6.6	.298*	.068
Oregon															
NADP															
Lost Creek Dam		34	1	.05	.07	1.23	.17	.34	.01	.03	0.1	0.1	1.9	.325*	.092
Pennsylvania															
NADP															
Kane	2A	42		.14	.14	.99	.26	.45	.02	.08	0.1	0.3	2.8	.295*	.122
Leading Ridge	1	46		.12	.13	.95	.21	.27	.03	.07	0.1	0.3	1.3	.257*	.162*
MAP3s/PCN															
Penn State	2B	66	1	.10	.09	1.02	.15	.14	.01	.04	0.1	0.2	0.5	.189*	.098
UAPSP															

Calcium

State / Network / Site Name	Site Rep	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	SD	Arithmetic Mean mg/l	SD mg/l	Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
Concentration ------- Percentiles mg/l -------															
Scranton	2A	94	14	.06	.07	1.17	.14	.16	.01	.03	0.1	0.2	1.1	.204*	.069
South Carolina															
NADP															
Clemson	3	43	1	.10	.15	1.27	.31	.38	.01	.05	0.1	0.4	1.8	.234*	.078
South Dakota															
UAPSP															
Brookings	2A	52	4	.21	.17	1.25	.30	.30	.00	.10	0.2	0.4	1.3	.182*	
Tennessee															
NADP															
Walker Branch	2A	43		.17	.20	.81	.28	.26	.03	.13	0.2	0.4	1.1	.245*	.093
MAP3s/PCN															
Oak Ridge	2B	60		.15	.19	.92	.29	.33	.04	.11	0.2	0.4	1.8	.248*	.081
UAPSP															
Alamo	2B	43	9	.12	.09	1.48	.21	.24	-.01	.03	0.1	0.3	1.0	.201*	
Texas															
NADP															
Forest Seed Ctr	2	39		.19	.23	1.13	.48	.87	.02	.09	0.2	0.5	4.4	.300*	.085
K-Bar	2	29		.80	.69	1.25	1.59	3....	.05	.31	0.7	1.5	18.9	.341*	.111
Longview	2	37		.20	.25	1.18	.53	.78	.04	.10	0.2	0.6	3.6	.291*	.129
UAPSP															
Marshall	2A	64	3	.14	.15	1.11	.27	.34	.01	.08	0.1	0.2	1.7	.303*	.113*
Vermont															
NADP															
Bennington	2A	47	1	.11	.12	1.03	.22	.41	.01	.07	0.1	0.2	2.8	.307*	.111
UAPSP															
Underhill Center	2A	138	42	.06	.05	1.28	.11	.18	-.02	.02	0.1	0.1	1.3	.248*	
Virginia															
MAP3s/PCN															
Virginia	2A	51	5	.07	.07	1.16	.12	.11	.01	.03	0.1	0.2	0.4	.166*	.121
West Virginia															
NADP															
Parsons	2A	49		.16	.17	.87	.26	.37	.03	.11	0.2	0.3	2.5	.265*	.081
Wisconsin															
NADP															
Lake Dubay	2	42		.32	.32	.99	.50	.53	.04	.17	0.4	0.7	2.6	.190*	.069
Spooner	1	41		.27	.24	.85	.34	.31	.04	.13	0.2	0.4	1.5	.220*	.087
Trout Lake	1	40		.19	.21	1.07	.38	.47	.03	.10	0.2	0.4	2.0	.247*	.058
WISC															
Legend Lake		72		.32	.23	1.06	.39	.44	.02	.12	0.2	0.5	2.0	.205*	.054
Round Lake	1	98	8	.22	.14	1.34	.28	.34	.01	.07	0.1	0.4	1.8	.213*	.061
Wyoming															
NADP															
Newcastle		41		.35	.40	1.04	.73	1.27	.05	.20	0.4	0.8	8.1	.295*	.089
American Samoa															
NADP															
American Samoa		48		.14	.21	1.00	.37	.44	.04	.09	0.2	0.4	2.0	.279*	.121
Alberta															
CANSAP															
Fort McMurray		10		1.32	1.16	.73	1.49	1.22	.38	.73	1.0	2.2	4.4	.250	.170
British Columbia															

Calcium

State / Network / Site Name	Site Rep	N	N BDL	Concentration: Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	25%	50%	75%	Max	K-S D-Statistic: Gau	Log
CANSAP															
Kelowna		10	1	.17	.15	.77	.18	.11	.05	.10	0.2	0.3	0.4	.157	.139
Port Hardy		12	3	.11	.09	.87	.12	.11	.05	.06	0.1	0.1	0.4	.308*	.231
Revelstoke		12	2	.20	.16	.98	.22	.15	.05	.08	0.2	0.3	0.5	.186	.216
Vancouver		12		.23	.29	.79	.39	.33	.10	.15	0.3	0.6	1.1	.779*	.157
New Brunswick															
CANSAP															
Acadia Fes	3	12	8	.04	.04	.68	.05	.04	.05	.05	0.1	0.1	0.1	.380*	.388*
Newfoundland															
CANSAP															
Stephenville	3	10	2	.09	.08	.66	.10	.05	.05	.06	0.1	0.1	0.2	.133	.182
Nova Scotia															
CANSAP															
Kejimkujik (a)	2A	12	7	.05	.04	.53	.05	.03	.05	.05	0.1	0.1	0.1	.374*	.386*
Truro	3	11	1	.17	.14	1.02	.23	.27	.05	.07	0.1	0.3	0.9	.255*	.190
Ontario															
CANSAP															
Dorset (a)	1	12		.19	.20	.77	.29	.36	.10	.11	0.2	0.2	1.4	.374*	.215
Mount Forest (a)	3	12		.77	.80	.56	.95	.66	.44	.48	0.7	1.1	2.7	.227	.175
APIOS-C															
Colchester	2A	11		.43	.39	.65	.47	.26	.14	.19	0.5	0.6	0.9	.155	.231
Coldwater	1	13		.31	.27	.65	.33	.19	.08	.20	0.3	0.5	0.7	.205	.140
Dorion	1	13		.17	.14	.88	.19	.15	.04	.06	0.2	0.3	0.5	.176	.171
Dorset (c)	1	13		.20	.15	.90	.22	.18	.04	.06	0.2	0.3	0.6	.189	.158
Gowganda	2A	12		.13	.11	.71	.15	.13	.05	.07	0.1	0.2	0.5	.343*	.301*
Huron Park	2A	11		.71	.73	.41	.79	.33	.38	.56	0.7	1.2	1.3	.232	.166
Killarney	2A	11		.23	.20	.54	.23	.10	.07	.16	0.2	0.3	0.4	.141	.213
Mattawa	2A	11		.16	.14	.69	.17	.12	.05	.06	0.1	0.2	0.5	.200	.187
Merlin	2A	11		.81	.80	.34	.85	.27	.42	.62	0.9	1.0	1.2	.153	.174
Palmerston	2A	12		.55	.56	.55	.64	.30	.20	.37	0.6	0.9	1.1	.185	.197
Port Stanley	2B	12		.61	.61	.52	.69	.33	.23	.43	0.6	1.0	1.2	.154	.156
Shallow Lake	2A	12		.30	.28	.52	.31	.15	.11	.20	0.3	0.4	0.6	.248*	.158
Smith's Falls	3	11		.38	.30	.92	.45	.43	.07	.16	0.3	0.7	1.5	.223	.108
Waterloo	2A	12		.42	.38	.41	.41	.17	.21	.26	0.4	0.5	0.8	.168	.148
Wilberforce	1	13		.21	.16	.78	.21	.16	.05	.08	0.1	0.3	0.6	.228	.143
Quebec															
CANSAP															
Maniwaki	2B	10		.19	.18	.60	.21	.12	.06	.14	0.2	0.3	0.4	.175	.173

Magnesium

State / Network / Site Name	Site Rep	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	SD	Arithmetic Mean mg/l	SD mg/l	Concentration Percentiles mg/l Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
Alabama															
UAPSP															
Selma	2A	98	9	.02	.03	.81	.04	.03	.00	.01	0.0	0.0	0.2	.185*	.082
Arizona															
NADP															
Grand Canyon		36		.05	.07	1.13	.12	.16	.01	.02	0.1	0.2	0.6	.277*	.094
Organ Pipe Mon.		26		.05	.08	1.35	.18	.22	.01	.02	0.1	0.3	0.8	.240*	.141
Arkansas															
NADP															
Fayetteville	2B	40		.03	.04	.84	.07	.10	.01	.03	0.0	0.1	0.6	.295*	.098
Warren 2WSW	2	42		.03	.04	.71	.05	.04	.01	.02	0.0	0.1	0.3	.198*	.092
California															
NADP															
Davis Site		27		.05	.05	1.01	.09	.11	.01	.02	0.0	0.1	0.4	.295*	.115
Hopland (Ukiah)		34		.06	.04	.95	.07	.07	.01	.02	0.0	0.1	0.4	.219*	.092
Sequoia Nat. Park		28		.02	.03	.95	.04	.06	.01	.01	0.0	0.1	0.3	.255*	.101
Tanbark Flat		27		.04	.06	1.12	.10	.11	.01	.03	0.1	0.1	0.4	.243*	.068
Yosemite		33	1	.02	.02	1.25	.05	.10	.00	.01	0.0	0.1	0.6	.310*	.080
Colorado															
NADP															
Manitou		38		.04	.05	.95	.08	.07	.01	.02	0.1	0.1	0.4	.158*	.091
Mesa Verde		36		.03	.05	1.14	.09	.10	.01	.02	0.0	0.1	0.5	.269*	.135
Pawnee	2A	34		.04	.05	.77	.07	.06	.01	.03	0.0	0.1	0.3	.212*	.100
Rocky Mt. Nat Park		46		.04	.05	1.16	.09	.11	.00	.02	0.0	0.1	0.5	.238*	.074
Sand Spring		44		.05	.06	1.15	.15	.37	.01	.03	0.1	0.1	2.4	.350*	.103
UAPSP															
Yampa	1	104	13	.02	.02	.83	.03	.03	.00	.01	0.0	0.0	0.2	.251*	.088*
Delaware															
MAP3s/PCN															
Lewes	2A	65		.18	.10	1.21	.19	.25	.01	.04	0.1	0.3	1.7	.229*	.102
Florida															
NADP															
Bradford Forest	2A	40		.05	.06	.81	.08	.11	.01	.03	0.1	0.1	0.7	.274*	.068
Georgia															
NADP															
Georgia Station	2A	40		.04	.05	.82	.07	.07	.01	.03	0.0	0.1	0.3	.268*	.149*
UAPSP															
Uvalda	2A	86	4	.02	.02	.83	.03	.03	.00	.01	0.0	0.0	0.2	.186*	.059
Hawaii															
NADP															
Mauna Loa		15		.02	.04	1.26	.08	.08	.00	.01	0.0	0.1	0.3	.194	.135
Illinois															
NADP															
Argonne	3	41		.06	.09	.92	.14	.18	.02	.05	0.1	0.2	1.1	.273*	.109
Dixon Springs	2B	40		.03	.03	.76	.05	.04	.01	.02	0.0	0.1	0.2	.192*	.100
NIARC	1	40		.06	.07	1.01	.12	.13	.01	.03	0.1	0.1	0.6	.250*	.101
Salem	1	36		.02	.03	.95	.05	.09	.01	.02	0.0	0.1	0.5	.322*	.095
Southern Ill U	2B	42		.03	.04	1.01	.06	.07	.01	.02	0.0	0.1	0.3	.266*	.116
Indiana															
NADP															

Magnesium

State / Network / Site Name	Site Rep	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Concentration Percentiles mg/l Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
Indiana Dunes	3	46		.08	.10	1.11	.17	.19	.01	.05	0.1	0.2	0.9	.208*	.074
Purdue U Ag Farm	2	43		.04	.07	1.29	.20	.56	.01	.04	0.1	0.2	3.5	.380*	.094
UAPSP															
Fort Wayne	2A	88	3	.04	.04	1.03	.06	.08	.00	.02	0.0	0.1	0.4	.222*	.063
Rockport	3	82	13	.02	.02	.89	.03	.04	.00	.01	0.0	0.0	0.3	.239*	
Kansas															
NADP															
Konza Prairie	2	39		.04	.05	1.01	.08	.12	.01	.02	0.0	0.1	0.5	.273*	.144*
UAPSP															
Lancaster	2A	70	4	.02	.02	.85	.03	.04	.00	.01	0.0	0.0	0.3	.203*	.060
Kentucky															
UAPSP															
Morehead	2A	109	18	.03	.02	1.03	.05	.14	.00	.01	0.0	0.0	1.4	.363*	
Maine															
NADP															
Greenville Station	2B	45		.02	.02	.89	.03	.05	.00	.01	0.0	0.0	0.3	.299*	.090
UAPSP															
Winterport	2A	95	13	.04	.02	.91	.03	.05	.00	.01	0.0	0.0	0.2	.235*	
Massachusetts															
NADP															
East	3	46		.08	.06	.86	.09	.07	.01	.03	0.1	0.1	0.3	.135*	.126
UAPSP															
Turners Falls	2A	90	15	.02	.02	.92	.03	.05	.00	.01	0.0	0.0	0.4	.282*	.085
Michigan															
NADP															
Douglas Lake	1	39		.04	.04	.86	.06	.07	.01	.02	0.0	0.1	0.3	.276*	.105
Kellogg	2A	38		.05	.07	.99	.12	.15	.01	.03	0.1	0.1	0.6	.284*	.105
Wellston	2A	46		.05	.05	.77	.06	.06	.01	.03	0.0	0.1	0.4	.211*	.082
UAPSP															
Gaylord	2A	93	16	.03	.02	.95	.03	.05	.00	.01	0.0	0.0	0.3	.272*	.067
Minnesota															
NADP															
Fernberg	1	41		.03	.04	.99	.08	.16	.01	.02	0.0	0.1	0.8	.336*	.136
Marcell	2B	37		.04	.04	.85	.06	.05	.01	.02	0.0	0.1	0.2	.206*	.099
Mississippi															
NADP															
Meridian	3	38		.04	.04	.67	.05	.03	.01	.03	0.0	0.1	0.1	.178*	.092
UAPSP															
Clinton	2A	105	5	.03	.03	.94	.05	.10	.00	.01	0.0	0.0	0.9	.301*	
Missouri															
NADP															
Ashland	2	45		.04	.05	.92	.08	.10	.01	.03	0.0	0.1	0.4	.252*	.118
University Forest	2	41		.04	.04	.84	.06	.05	.01	.02	0.0	0.1	0.2	.168*	.123
Montana															
NADP															
Glacier Nat Park		41	1	.02	.03	1.06	.06	.16	.01	.01	0.0	0.1	1.0	.354*	.145*
Nebraska															
NADP															
Mead	2	36		.05	.05	.95	.07	.07	.01	.03	0.0	0.1	0.3	.208*	.066
New Hampshire															

Magnesium

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NADP															
Hubbard Brook	1	45		.02	.02	.88	.04	.04	.01	.01	0.0	0.0	0.2	.242*	.099
New Mexico															
NADP															
Bandelier		36		.04	.05	1.02	.09	.10	.01	.02	0.0	0.1	0.4	.281*	.128
CUBA		36		.04	.05	1.05	.10	.18	.01	.03	0.0	0.1	1.0	.309*	.104
New York															
NADP															
Aurora	2A	48		.04	.04	1.10	.09	.22	.01	.02	0.0	0.1	1.5	.356*	.110
Bennett Bridge	2A	46		.03	.04	.90	.06	.07	.01	.02	0.0	0.1	0.3	.300*	.171*
Chautauqua	2A	44		.03	.04	.84	.05	.06	.01	.02	0.0	0.1	0.3	.245*	.073
Huntington	2B	44		.03	.03	1.13	.06	.09	.01	.01	0.0	0.1	0.5	.285*	.093
Jasper	2A	45		.03	.03	.96	.06	.08	.00	.02	0.0	0.1	0.5	.258*	.127
Knobit	2A	37		.02	.03	.86	.04	.05	.01	.02	0.0	0.1	0.2	.246*	.120
Stilwell Lake	2B	43		.05	.06	1.08	.13	.30	.01	.03	0.0	0.1	1.9	.349*	.135
MAP3s/PCN															
Brookhaven	2B	69	1	.09	.06	.99	.09	.09	.01	.03	0.1	0.1	0.4	.176*	.045
Ithaca	2A	71	26	.01	.01	1.31	.03	.05	.00	.01	0.0	0.0	0.2	.286*	.181*
Whiteface	1	105	53	.01	.01	1.19	.02	.05	.00	.01	0.0	0.0	0.3	.325*	.231*
UAPSP															
Big Moose	1	146	12	.02	.02	.83	.03	.03	.00	.01	0.0	0.0	0.2	.214*	.052
North Carolina															
NADP															
Clinton Station	2A	40		.06	.06	.90	.09	.13	.00	.03	0.1	0.1	0.7	.319*	.124
Finley (A)	2A	42		.05	.05	.93	.09	.12	.01	.03	0.0	0.1	0.6	.302*	.128
Lewiston	2A	42		.07	.07	.90	.11	.10	.01	.04	0.1	0.2	0.5	.213*	.082
Piedmont Station	2A	44		.04	.04	.78	.06	.05	.01	.03	0.0	0.1	0.3	.171*	.072
UAPSP															
Raleigh	3	79	4	.04	.03	1.06	.06	.10	.00	.01	0.0	0.1	0.6	.272*	.067
Ohio															
NADP															
Caldwell	2B	47		.04	.04	.96	.07	.08	.01	.02	0.0	0.1	0.4	.227*	.127
Delaware	2A	48		.04	.06	1.16	.11	.16	.01	.03	0.0	0.1	0.7	.295*	.086
Wooster	3	44		.04	.04	.83	.05	.05	.01	.02	0.0	0.1	0.2	.216*	.085
UAPSP															
McArthur	2A	118	21	.02	.02	.98	.04	.06	.00	.01	0.0	0.0	0.4	.283*	.041
Zanesville	3	113	6	.02	.02	.90	.04	.04	.00	.01	0.0	0.0	0.2	.218*	.055
Oklahoma															
NADP															
Clayton Lake		38		.04	.05	.82	.07	.08	.01	.03	0.0	0.1	0.4	.252*	.123
Oregon															
NADP															
Lost Creek Dam		34		.02	.03	1.09	.05	.08	.00	.01	0.0	0.0	0.3	.302*	.163*
Pennsylvania															
NADP															
Kane	2A	42		.03	.03	.92	.05	.07	.00	.02	0.0	0.1	0.3	.279*	.097
Leading Ridge	1	46		.03	.03	.87	.04	.05	.01	.01	0.0	0.1	0.2	.240*	.103
MAP3s/PCN															
Penn State	2B	66	26	.01	.01	1.08	.02	.02	.00	.01	0.0	0.0	0.1	.238*	.179*
UAPSP															

Magnesium

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Scranton	2A	94	19	.01	.02	.83	.03	.04	.00	.01	0.0	0.0	0.3	.233*	.075
South Carolina															
NADP															
Clemson	3	43		.03	.04	1.04	.08	.10	.01	.02	0.0	0.1	0.5	.294*	.098
South Dakota															
UAPSP															
Brookings	2A	52	6	.03	.03	.98	.05	.05	.00	.02	0.0	0.1	0.3	.202*	.118
Tennessee															
NADP															
Walker Branch	2A	43		.03	.04	.77	.05	.04	.01	.02	0.0	0.1	0.2	.220*	.092
MAP3s/PCN															
Oak Ridge	2B	60	7	.02	.02	1.04	.03	.04	.00	.01	0.0	0.0	0.1	.258*	.109
UAPSP															
Alamo	2B	43	8	.02	.02	.85	.03	.03	.00	.01	0.0	0.0	0.2	.256*	.075
Texas															
NADP															
Forest Seed Ctr	2	39		.05	.06	.97	.10	.11	.01	.03	0.1	0.1	0.4	.268*	.095
K-Bar	2	29		.04	.05	.99	.08	.08	.01	.02	0.0	0.1	0.3	.240*	.102
Longview	2	37		.04	.05	.93	.08	.10	.01	.03	0.0	0.1	0.5	.267*	.082
UAPSP															
Marshall	2A	64	1	.02	.03	.99	.05	.06	.00	.02	0.0	0.1	0.3	.241*	.077
Vermont															
NADP															
Bennington	2A	47		.03	.04	.88	.06	.09	.01	.02	0.0	0.1	0.6	.293*	.087
UAPSP															
Underhill Center	2A	238	46	.01	.01	.71	.02	.03	.00	.00	0.0	0.0	0.2	.267*	
Virginia															
MAP3s/PCN															
Virginia	2A	51	15	.02	.01	1.03	.02	.02	.00	.01	0.0	0.0	0.1	.199*	.147*
West Virginia															
NADP															
Parsons	2A	49		.02	.03	.82	.04	.05	.00	.01	0.0	0.0	0.3	.278*	.108
Wisconsin															
NADP															
Lake Dubay	2	42		.05	.06	.95	.10	.10	.01	.03	0.1	0.2	0.4	.221*	.112
Spooner	1	41		.04	.04	.76	.06	.05	.01	.03	0.0	0.1	0.3	.222*	.116
Trout Lake	1	40		.04	.04	1.10	.08	.11	.01	.02	0.0	0.1	0.5	.275*	.101
WISC															
Legend Lake		72	17	.05	.02	1.29	.05	.08	.00	.01	0.0	0.1	0.6	.276*	.111*
Round Lake	1	98	47	.02	.01	1.16	.02	.03	.00	.01	0.0	0.0	0.2	.248*	.193*
Wyoming															
NADP															
Newcastle		41		.05	.06	.97	.10	.09	.01	.03	0.1	0.1	0.5	.183*	.108
American Samoa															
NADP															
American Samoa		48		.31	.43	.98	.73	.90	.08	.22	0.4	0.8	4.4	.281*	.127
Alberta															
CANSAP															
Fort McMurray		10		.41	.37	.68	.45	.33	.12	.24	0.3	0.7	1.2	.245	.144
British Columbia															

Magnesium

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CANSAP															
Kelowna		10	2	.02	.02	.77	.02	.02	.01	.01	0.0	0.0	0.1	.219	.190
Port Hardy		12		.17	.11	.78	.15	.11	.03	.07	0.1	0.2	0.4	.205	.193
Revelstoke		12	2	.02	.02	.73	.03	.02	.01	.02	0.0	0.0	0.1	.387*	.329*
Vancouver		12		.06	.06	.36	.06	.02	.03	.04	0.1	0.1	0.1	.128	.104
New Brunswick															
CANSAP															
Acadia Fes	3	12		.03	.03	.51	.03	.01	.01	.02	0.0	0.0	0.1	.201	.245*
Newfoundland															
CANSAP															
Stephenville	3	10		.08	.07	.69	.09	.06	.03	.04	0.1	0.1	0.2	.215	.189
Nova Scotia															
CANSAP															
Kejimkujik (a)	2A	12		.07	.05	1.01	.07	.05	.01	.01	0.1	0.1	0.2	.169	.203
Truro	3	11		.07	.05	.97	.07	.05	.01	.02	0.1	0.1	0.2	.230	.281*
Ontario															
CANSAP															
Dorset (a)	1	12		.04	.04	.83	.06	.07	.01	.02	0.0	0.0	0.3	.361*	.201
Mount Forest (a)	3	12		.26	.27	.62	.32	.23	.13	.14	0.3	0.4	0.9	.246*	.132
APIOS-C															
Colchester	2A	11		.11	.11	.66	.14	.09	.03	.07	0.1	0.2	0.3	.306*	.231
Coldwater	1	13	1	.07	.04	1.23	.08	.10	.01	.02	0.0	0.1	0.4	.344*	.227
Dorion	1	11		.03	.02	.88	.03	.02	.01	.01	0.0	0.0	0.1	.178	.192
Dorset (c)	1	12		.03	.03	.85	.04	.04	.01	.01	0.0	0.0	0.1	.219	.177
Gowganda	2A	11		.02	.02	.77	.03	.03	.01	.01	0.0	0.0	0.1	.331*	.280*
Huron Park	2A	12		.13	.13	.50	.15	.08	.06	.08	0.1	0.2	0.4	.202	.108
Killarney	2A	11		.04	.03	.52	.04	.02	.01	.03	0.0	0.1	0.1	.242	.295*
Mattawa	2A	11	1	.02	.02	.90	.02	.02	.01	.01	0.0	0.0	0.1	.217	.165
Merlin	2A	11		.15	.15	.37	.16	.05	.07	.12	0.1	0.2	0.2	.193	.162
Palmerston	2A	12		.14	.15	.55	.17	.09	.07	.09	0.2	0.3	0.3	.196	.155
Port Stanley	2B	12		.12	.11	.60	.13	.08	.05	.07	0.1	0.2	0.2	.200	.162
Shallow Lake	2A	12		.06	.05	.54	.06	.04	.03	.04	0.1	0.1	0.1	.329*	.237
Waterloo	2A	12		.11	.10	.42	.11	.05	.06	.06	0.1	0.1	0.2	.171	.167
Wilberforce	1	12		.03	.03	.76	.04	.03	.01	.01	0.0	0.1	0.1	.192	.133
Quebec															
CANSAP															
Maniwaki	2B	10	1	.03	.03	.67	.03	.02	.01	.02	0.0	0.0	0.1	.299*	.206
Sept Isles	3	11		.05	.04	.43	.05	.02	.02	.03	0.0	0.1	0.1	.146	.202

Potassium

State / Network / Site Name	Site Rep	N	N BDL	Concentration: Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	25%	50%	75%	Max	K-S D-Statistic: Gau	Log
Alabama															
UAPSP															
Selma	2A	98	55	.04	.02	1.19	.10	.46	-.01	.01	0.0	0.1	4.4	.412*	
Arizona															
NADP															
Grand Canyon		36	1	.02	.02	1.21	.05	.08	.00	.01	0.0	0.1	0.5	.288*	.074
Organ Pipe Mon.		26		.03	.05	1.20	.09	.11	.01	.02	0.1	0.1	0.5	.274*	.121
Arkansas															
NADP															
Fayetteville	2B	40		.05	.05	.93	.08	.12	.01	.02	0.1	0.1	0.7	.297*	.115
Warren 2WSW	2	42		.04	.04	.76	.06	.05	.01	.03	0.0	0.1	0.3	.232*	.096
California															
NADP															
Davis Site		27		.03	.03	1.03	.06	.06	.01	.02	0.0	0.1	0.2	.298*	.145
Hopland (Ukiah)		34		.02	.03	.90	.04	.05	.00	.01	0.0	0.0	0.2	.272*	.138
Sequoia Nat. Park		28		.03	.03	1.19	.06	.08	.01	.01	0.0	0.1	0.3	.244*	.134
Tanbark Flat		27		.02	.03	1.15	.06	.08	.00	.01	0.0	0.1	0.4	.258*	.077
Yosemite		33		.02	.02	1.33	.06	.14	.00	.01	0.0	0.0	0.6	.340*	.105
Colorado															
NADP															
Manitou		38		.09	.05	1.29	.13	.25	.00	.02	0.0	0.1	1.1	.345*	.131
Mesa Verde		36	1	.02	.03	1.26	.06	.10	.00	.01	0.0	0.1	0.6	.290*	.065
Pawnee	2A	34		.05	.06	.92	.09	.10	.01	.03	0.1	0.1	0.4	.278*	.093
Rocky Mt. Nat Park		46		.04	.04	1.22	.07	.11	.00	.01	0.0	0.1	0.6	.265*	.087
Sand Spring		44		.03	.03	1.24	.09	.23	.00	.01	0.0	0.1	1.4	.367*	.125
UAPSP															
Yampa	1	104	54	.03	.02	.95	.04	.04	.00	.01	0.0	0.0	0.2	.197*	
Delaware															
MAP3s/PCN															
Lewes	2A	65	46	.03	.02	.81	.04	.08	.01	.02	0.0	0.1	0.6	.321*	.227*
Florida															
NADP															
Bradford Forest	2A	40		.05	.04	.90	.07	.08	.01	.02	0.0	0.1	0.4	.247*	.065
Georgia															
NADP															
Georgia Station	2A	40		.09	.05	1.18	.11	.19	.01	.02	0.0	0.1	0.9	.322*	.126
UAPSP															
Uvalda	2A	86	46	.02	.02	.89	.04	.05	.00	.01	0.0	0.0	0.3	.214*	
Hawaii															
NADP															
Mauna Loa		15	1	.01	.03	1.53	.08	.12	.00	.01	0.0	0.1	0.5	.281*	.244*
Illinois															
NADP															
Argonne	3	41		.05	.04	.75	.05	.04	.01	.03	0.0	0.1	0.2	.202*	.132
Dixon Springs	2B	40		.03	.03	.77	.04	.03	.00	.02	0.0	0.0	0.1	.152*	.085
NIARC	1	40		.03	.03	.72	.04	.03	.01	.02	0.0	0.1	0.2	.163*	.085
Salem	1	36		.04	.03	.98	.05	.08	.01	.01	0.0	0.0	0.4	.317*	.096
Southern Ill U	2B	42		.03	.03	.89	.05	.05	.01	.02	0.0	0.1	0.2	.227*	.097
Indiana															
NADP															

Potassium

State / Network / Site Name	Site Rep	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Concentration mg/l Percentiles Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
Indiana Dunes	3	46		.04	.04	1.00	.07	.09	.01	.02	0.0	0.1	0.5	.264*	.117
Purdue U Ag Farm	2	43		.03	.03	.87	.04	.05	.01	.02	0.0	0.0	0.2	.274*	.100
UAPSP															
Fort Wayne	2A	88	47	.02	.02	.94	.04	.07	.00	.01	0.0	0.1	0.6	.279*	
Rockport	3	82	40	.06	.02	1.08	.05	.08	.00	.01	0.0	0.0	0.4	.335*	.106*
Kansas															
NADP															
Konza Prairie	2	39		.04	.04	.99	.08	.12	.01	.02	0.0	0.1	0.6	.335*	.136
UAPSP															
Lancaster	2A	70	42	.03	.02	.96	.04	.06	.00	.01	0.0	0.0	0.4	.272*	
Kentucky															
UAPSP															
Morehead	2A	110	50	.05	.03	1.14	.07	.17	.00	.01	0.0	0.1	1.5	.342*	.060
Maine															
NADP															
Greenville Station	2B	45	2	.02	.01	1.13	.03	.09	.00	.01	0.0	0.0	0.6	.368*	.137*
UAPSP															
Winterport	2A	96	71	.02	.02	.74	.02	.02	-.01	.00	0.0	0.0	0.1	.209*	
Massachusetts															
NADP															
East	3	46	2	.03	.02	.97	.04	.04	.00	.01	0.0	0.0	0.3	.205*	.098
UAPSP															
Turners Falls	2A	90	58	.02	.02	.82	.03	.03	-.01	.01	0.0	0.0	0.2	.205*	
Michigan															
NADP															
Douglas Lake	1	39		.04	.03	.90	.05	.06	.01	.01	0.0	0.1	0.3	.278*	.155*
Kellogg	2A	38		.03	.04	1.01	.08	.12	.01	.02	0.0	0.1	0.6	.369*	.191*
Wellston	2A	46		.03	.03	.72	.04	.03	.01	.02	0.0	0.0	0.2	.193*	.129
UAPSP															
Gaylord	2A	93	67	.02	.02	.71	.02	.02	-.01	.01	0.0	0.0	0.1	.169*	
Minnesota															
NADP															
Fernberg	1	41		.03	.03	.97	.05	.06	.01	.01	0.0	0.1	0.3	.245*	.114
Marcell	2B	37		.05	.05	1.12	.14	.41	.01	.03	0.0	0.1	2.5	.407*	.109
APIOS-D															
Fernberg	1	57	5	.05	.03	.79	.04	.03	.01	.02	0.0	0.1	0.1	.170*	.095
Mississippi															
NADP															
Meridian	3	38		.06	.05	.84	.06	.05	.01	.02	0.1	0.1	0.2	.188*	.101
UAPSP															
Clinton	2A	105	48	.05	.03	1.16	.08	.23	-.01	.01	0.0	0.1	2.2	.352*	
Missouri															
NADP															
Ashland	2	45		.05	.05	.82	.07	.07	.01	.03	0.0	0.1	0.4	.221*	.083
University Forest	2	41		.11	.05	1.03	.11	.30	.01	.02	0.0	0.1	1.8	.397*	.132
Montana															
NADP															
Glacier Nat Park		41	1	.02	.03	.98	.04	.05	.00	.01	0.0	0.0	0.3	.291*	.102
Nebraska															
NADP															

Potassium

State / Network / Site Name	Site Rep	N	N BDL	Concentration: Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	25%	50%	75%	Max	K-S D-Statistic: Gau	Log
Mead	2	36		.04	.05	.99	.08	.09	.01	.03	0.1	0.1	0.4	.292*	.122
New Hampshire															
NADP															
Hubbard Brook	1	45		.02	.02	.95	.03	.05	.00	.01	0.0	0.0	0.2	.282*	.090
New Mexico															
NADP															
Bandelier		36		.13	.07	1.28	.23	.65	.01	.03	0.1	0.1	3.9	.367*	.110
CUBA		36		.03	.03	1.06	.06	.08	.01	.01	0.0	0.1	0.4	.258*	.134
New York															
NADP															
Aurora	2A	48		.03	.02	1.07	.05	.08	.00	.01	0.0	0.1	0.5	.283*	.115
Bennett Bridge	2A	46		.03	.03	.98	.06	.09	.01	.01	0.0	0.1	0.5	.301*	.130
Chautauqua	2A	44		.04	.04	1.08	.08	.15	.01	.02	0.0	0.1	0.9	.317*	.115
Huntington	2B	44		.02	.02	.96	.03	.03	.00	.01	0.0	0.0	0.1	.197*	.075
Jasper	2A	45		.02	.02	.85	.03	.02	.00	.01	0.0	0.0	0.1	.227*	.090
Knobit	2A	37		.02	.02	.81	.03	.03	.01	.01	0.0	0.0	0.1	.254*	.093
Stilwell Lake	2B	43		.02	.03	1.15	.08	.18	.01	.02	0.0	0.0	0.9	.380*	.166*
MAP3s/PCN															
Brookhaven	2B	69	62	.02	.02	.68	.02	.02	.01	.02	0.0	0.0	0.2	.314*	.180*
Ithaca	2A	71	69	.02	.02	.63	.02	.01	.02	.02	0.0	0.1	0.1	.269*	.214*
Whiteface	1	102	95	.05	.02	.93	.06	.34	.01	.02	0.0	0.1	3.5	.466*	.227*
UAPSP															
Big Moose	1	146	75	.03	.02	1.00	.04	.08	-.01	.01	0.0	0.0	0.8	.267*	
North Carolina															
NADP															
Clinton Station	2A	40		.04	.04	.82	.06	.07	.01	.02	0.0	0.1	0.3	.258*	.087
Finley (A)	2A	42		.06	.04	1.06	.08	.19	.00	.02	0.0	0.1	1.2	.353*	.094
Lewiston	2A	42		.04	.05	.74	.06	.04	.01	.03	0.0	0.1	0.2	.158*	.094
Piedmont Station	2A	44		.07	.05	1.13	.13	.37	.00	.03	0.0	0.1	2.3	.432*	.146*
UAPSP															
Raleigh	3	79	44	.03	.02	1.09	.05	.10	-.01	.01	0.0	0.1	0.6	.282*	
Ohio															
NADP															
Caldwell	2B	47	1	.04	.03	1.07	.06	.12	.00	.01	0.0	0.1	0.8	.324*	.076
Delaware	2A	48	1	.03	.03	1.14	.06	.11	.00	.02	0.0	0.1	0.6	.297*	.093
Wooster	3	44		.03	.02	.84	.03	.03	.01	.01	0.0	0.0	0.2	.234*	.137*
UAPSP															
McArthur	2A	118	78	.02	.02	.91	.03	.04	-.01	.01	0.0	0.0	0.3	.219*	
Zanesville	3	113	75	.02	.02	.82	.03	.03	-.01	.01	0.0	0.0	0.1	.197*	
Oklahoma															
NADP															
Clayton Lake		38		.05	.05	1.02	.10	.20	.01	.02	0.0	0.1	1.1	.322*	.156*
Oregon															
NADP															
Lost Creek Dam		34		.01	.02	.98	.04	.06	.00	.01	0.0	0.0	0.4	.300*	.110
Pennsylvania															
NADP															
Kane	2A	42		.03	.03	.85	.04	.05	.00	.01	0.0	0.0	0.3	.276*	.088
Leading Ridge	1	46		.04	.03	.95	.04	.04	.00	.02	0.0	0.1	0.2	.227*	.065
UAPSP															

Potassium

State / Network / Site Name	Site Rep	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Concentration Percentiles mg/l Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
Scranton	2A	94	64	.02	.02	.89	.03	.05	-.01	.01	0.0	0.0	0.3	.232*	
South Carolina															
NADP															
Clemson	3	43		.03	.03	1.03	.06	.09	.00	.02	0.0	0.1	0.5	.270*	.070
South Dakota															
UAPSP															
Brookings	2A	52	27	.03	.02	.97	.04	.04	.00	.01	0.0	0.1	0.3	.184*	.087
Tennessee															
NADP															
Walker Branch	2A	43		.03	.03	.75	.04	.04	.01	.02	0.0	0.0	0.3	.253*	.120
MAP3s/PCN															
Oak Ridge	2B	60	58	.02	.02	.65	.02	.01	.02	.02	0.0	0.0	0.1	.259*	.224*
UAPSP															
Alamo	2B	43	26	.02	.02	.95	.03	.04	-.01	.01	0.0	0.1	0.2	.198*	
Texas															
NADP															
Forest Seed Ctr	2	39		.06	.07	1.18	.15	.26	.01	.03	0.1	0.1	1.2	.310*	.119
K-Bar	2	29		.05	.06	1.07	.10	.13	.01	.03	0.1	0.1	0.6	.246*	.076
Longview	2	37		.05	.04	.94	.07	.10	.01	.02	0.0	0.1	0.5	.294*	.155*
UAPSP															
Marshall	2A	64	28	.03	.03	1.09	.06	.07	.00	.01	0.0	0.1	0.4	.231*	
Vermont															
NADP															
Bennington	2A	47	1	.03	.02	.92	.03	.03	.00	.01	0.0	0.0	0.2	.197*	.134*
UAPSP															
Underhill Center	2A	139	105	.01	.01	.77	.02	.07	-.02	.00	0.0	0.0	0.8	.303*	
Virginia															
MAP3s/PCN															
Virginia	2A	50	40	.02	.02	.65	.03	.03	.01	.02	0.0	0.0	0.2	.312*	.209*
West Virginia															
NADP															
Parsons	2A	49		.03	.03	.83	.04	.03	.00	.01	0.0	0.0	0.1	.153*	.106
Wisconsin															
NADP															
Lake Dubay	2	42		.04	.06	.96	.09	.11	.01	.03	0.1	0.1	0.5	.245*	.144*
Spooner	1	41		.05	.04	.73	.06	.09	.01	.02	0.0	0.0	0.6	.336*	.134
Trout Lake	1	40	1	.03	.02	1.09	.04	.05	.00	.01	0.0	0.0	0.3	.259*	.122
WISC															
Legend Lake		73	65	.05	.03	1.04	.12	.64	.02	.04	0.0	0.1	5.5	.428*	.262*
Round Lake	1	102	101	.09	.02	.63	.05	.30	.02	.04	0.0	0.1	3.0	.491*	.315*
Wyoming															
NADP															
Newcastle		41	1	.06	.04	1.24	.08	.10	.00	.02	0.0	0.1	0.5	.221*	.103
American Samoa															
NADP															
American Samoa		48		.11	.16	1.01	.27	.33	.03	.08	0.1	0.3	1.5	.287*	.122
Alberta															
CANSAP															
Fort McMurray		10		.23	.15	.84	.22	.23	.05	.07	0.1	0.3	0.8	.271*	.175
British Columbia															

Potassium

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CANSAP															
Kelowna		10	4	.08	.04	1.28	.08	.10	.02	.02	0.0	0.1	0.3	.298*	.273*
Port Hardy		12	1	.09	.08	.99	.12	.15	.02	.04	0.1	0.1	0.6	.335*	.153
Revelstoke		12		.13	.11	.47	.13	.07	.05	.08	0.1	0.1	0.3	.294*	.201
Vancouver		12		.07	.08	.58	.10	.06	.04	.05	0.1	0.2	0.2	.256*	.213
New Brunswick															
CANSAP															
Acadia Fes	3	12	1	.04	.04	.44	.04	.01	.02	.03	0.0	0.0	0.1	.245*	.225
Newfoundland															
CANSAP															
Stephenville	3	10		.06	.06	.51	.07	.03	.02	.04	0.1	0.1	0.1	.237	.212
Nova Scotia															
CANSAP															
Kejimkujik (a)	2A	12	2	.05	.04	.71	.05	.03	.02	.03	0.0	0.1	0.1	.195	.152
Truro	3	11	3	.04	.03	.71	.04	.02	.02	.02	0.0	0.1	0.1	.188	.215
Ontario															
CANSAP															
Dorset (a)	1	12	4	.03	.03	.91	.05	.07	.02	.02	0.0	0.0	0.3	.407*	.249*
Mount Forest (a)	3	12		.13	.08	.97	.15	.31	.03	.04	0.1	0.1	1.1	.420*	.255*
APIOS-C															
Colchester	2A	11	2	.04	.03	.89	.04	.02	.01	.03	0.0	0.1	0.1	.104	.193
Coldwater	1	10	1	.06	.05	.94	.07	.07	.02	.03	0.0	0.1	0.2	.318*	.217
Dorion	1	13	4	.03	.02	1.34	.03	.03	.01	.01	0.0	0.1	0.1	.157	.201
Dorset (c)	1	12	1	.03	.03	.75	.03	.02	.01	.02	0.0	0.0	0.1	.238	.202
Gowganda	2A	11	1	.04	.03	1.02	.04	.04	.01	.02	0.0	0.0	0.2	.335*	.241
Huron Park	2A	12	1	.04	.03	.85	.04	.02	.01	.03	0.0	0.0	0.1	.157	.217
Killarney	2A	12	1	.04	.04	.76	.05	.04	.02	.02	0.0	0.1	0.2	.251*	.172
Merlin	2A	12		.06	.05	.54	.05	.03	.02	.03	0.0	0.1	0.1	.304*	.194
Palmerston	2A	12	1	.05	.04	.87	.05	.04	.01	.03	0.0	0.1	0.1	.333*	.213
Port Stanley	2B	12	1	.06	.05	.80	.06	.06	.02	.03	0.1	0.1	0.2	.330*	.198
Shallow Lake	2A	12	2	.03	.02	1.14	.04	.02	.01	.02	0.0	0.1	0.1	.186	.212
Waterloo	2A	11	1	.07	.04	1.11	.07	.08	.01	.02	0.0	0.1	0.2	.306*	.140
Wilberforce	1	12		.03	.03	.52	.03	.02	.01	.02	0.0	0.0	0.1	.276*	.178
Quebec															
CANSAP															
Maniwaki	2B	10		.11	.10	.58	.13	.12	.06	.07	0.1	0.1	0.5	.351*	.245

Sodium

State / Network / Site Name	Site Rep	N	N BDL	Concentration: Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	25%	50%	75%	Max	K-S D-Statistic: Gau	Log
Alabama															
UAPSP															
Selma	2A	98	14	.15	.11	1.23	.19	.17	.00	.06	0.1	0.3	0.8	.172*	.137*
Arizona															
NADP															
Grand Canyon		36		.09	.11	1.23	.23	.32	.01	.04	0.1	0.3	1.2	.255*	.130
Organ Pipe Mon.		26		.25	.36	1.51	.99	1.37	.04	.10	0.3	1.9	4.6	.303*	.158
Arkansas															
NADP															
Fayetteville	2B	40		.13	.14	1.02	.25	.40	.03	.06	0.1	0.3	2.4	.288*	.102
Warren 2WSW	2	42		.14	.15	.77	.19	.15	.01	.09	0.2	0.2	0.7	.198*	.062
California															
NADP															
Davis Site		27		.31	.25	1.00	.43	.66	.04	.13	0.2	0.4	3.5	.281*	.089
Kopland (Ukiah)		34		.39	.23	1.10	.38	.38	.02	.11	0.3	0.5	1.4	.229*	.078
Sequoia Nat. Park		28		.10	.10	1.07	.20	.36	.01	.06	0.1	0.2	1.9	.304*	.114
Tanbark Flat		27		.29	.26	1.16	.46	.54	.02	.16	0.2	0.6	2.5	.222*	.146
Yosemite		33		.09	.10	1.10	.19	.26	.01	.05	0.1	0.2	1.2	.280*	.140
Colorado															
NADP															
Manitou		38		.07	.09	.95	.15	.18	.02	.05	0.1	0.2	1.0	.242*	.063
Mesa Verde		36		.06	.08	1.12	.15	.21	.01	.04	0.1	0.2	1.0	.253*	.118
Pawnee	2A	34		.11	.14	1.10	.29	.51	.02	.06	0.1	0.3	2.4	.369*	.131
Rocky Mt. Nat Park		46		.11	.11	1.36	.44	1.71	.01	.03	0.1	0.2	11.6	.400*	.080
Sand Spring		44		.08	.11	1.11	.28	.88	.02	.05	0.1	0.2	5.9	.383*	.090
UAPSP															
Yampa	1	105	36	.05	.03	1.05	.06	.09	-.01	.02	0.0	0.1	0.7	.244*	
Delaware															
NAP3s/PCN															
Lewes	2A	65		1.67	.88	1.29	1.81	2.78	.04	.35	0.9	2.5	20.5	.262*	.106
Florida															
NADP															
Bradford Forest	2A	40		.28	.31	.90	.49	.71	.06	.16	0.3	0.5	4.3	.310*	.102
Georgia															
NADP															
Georgia Station	2A	40		.21	.18	.93	.29	.35	.02	.12	0.2	0.3	1.9	.284*	.109
UAPSP															
Uvalda	2A	86	5	.17	.12	1.10	.21	.23	.01	.05	0.1	0.3	1.4	.187*	.072
Hawaii															
NADP															
Mauna Loa		15		.09	.18	1.80	1.46	4.68	.02	.05	0.2	0.6	18.4	.490*	.134
Illinois															
NADP															
Argonne	3	41		.07	.09	.82	.15	.33	.03	.05	0.1	0.1	2.1	.352*	.128
Dixon Springs	2B	40		.10	.10	.87	.15	.21	.02	.05	0.1	0.2	1.2	.259*	.079
NIARC	1	40		.06	.08	.92	.12	.16	.01	.04	0.1	0.1	0.9	.267*	.096
Salem	1	36		.06	.07	.85	.11	.17	.02	.04	0.1	0.1	1.0	.286*	.109
Southern Ill U	2B	42		.10	.09	1.05	.17	.25	.02	.04	0.1	0.2	1.4	.266*	.093
Indiana															
NADP															

Sodium

State / Network / Site Name	Site Rep	N	N BDL	Concentration: Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	25%	50%	75%	Max	K-S D-Statistic: Gau	Log
Indiana Dunes	3	46		.08	.10	.92	.17	.23	.03	.05	0.1	0.2	1.4	.273*	.166*
Purdue U Ag Farm	2	43		.07	.10	1.26	.30	.68	.02	.04	0.1	0.1	3.5	.414*	.174*
UAPSP															
Fort Wayne	2A	88	37	.05	.03	1.11	.06	.10	.00	.02	0.0	0.1	0.9	.269*	
Rockport	3	82	28	.06	.04	1.11	.07	.08	.00	.02	0.0	0.1	0.4	.214*	.057
Kansas															
NADP															
Konza Prairie	2	39		.08	.10	1.05	.19	.28	.02	.05	0.1	0.2	1.5	.274*	.111
UAPSP															
Lancaster	2A	70	35	.05	.03	1.14	.06	.08	-.01	.01	0.0	0.1	0.4	.236*	
Kentucky															
UAPSP															
Morehead	2A	110	38	.06	.04	1.16	.08	.13	.00	.02	0.0	0.1	0.9	.270*	
Maine															
NADP															
Greenville Station	2B	45		.06	.05	.93	.09	.15	.01	.03	0.0	0.1	1.0	.293*	.118
UAPSP															
Winterport	2A	96	17	.35	.10	1.44	.25	.39	.00	.04	0.1	0.2	2.1	.286*	.077
Massachusetts															
NADP															
East	3	46		.51	.27	1.22	.48	.46	.03	.08	0.3	0.8	2.0	.164*	.135*
UAPSP															
Turners Falls	2A	90	8	.19	.13	1.45	.36	.62	.01	.05	0.1	0.3	3.0	.289*	.076
Michigan															
NADP															
Douglas Lake	1	39		.05	.05	.85	.08	.08	.01	.03	0.0	0.1	0.4	.259*	.121
Kellogg	2A	38		.07	.09	1.11	.18	.24	.01	.05	0.1	0.2	0.9	.317*	.169*
Wellston	2A	46		.05	.06	.78	.08	.07	.01	.03	0.0	0.1	0.3	.260*	.149*
UAPSP															
Gaylord	2A	93	63	.02	.02	.92	.03	.04	-.01	.01	0.0	0.0	0.3	.250*	
Minnesota															
NADP															
Fernberg	1	41		.05	.06	.93	.10	.18	.01	.03	0.1	0.1	0.9	.330*	.091
Marcell	2B	37		.07	.08	1.30	.33	1.00	.02	.03	0.1	0.1	5.6	.417*	.193*
Mississippi															
NADP															
Meridian	3	38		.19	.18	.73	.23	.15	.03	.12	0.2	0.3	0.6	.151*	.071
UAPSP															
Clinton	2A	105	13	.15	.11	1.22	.20	.23	-.01	.06	0.1	0.2	1.3	.202*	
Missouri															
NADP															
Ashland	2	45		.10	.12	1.04	.21	.30	.02	.05	0.1	0.2	1.7	.265*	.110
University Forest	2	41		.11	.10	.80	.14	.17	.02	.06	0.1	0.2	1.1	.237*	.101
Montana															
NADP															
Glacier Nat Park		41	1	.06	.08	1.13	.17	.29	.01	.03	0.1	0.2	1.6	.321*	.184*
Nebraska															
NADP															
Mead	2	36		.10	.09	.99	.14	.13	.01	.04	0.1	0.2	0.5	.188*	.106
New Hampshire															

Sodium

State / Network / Site Name	Site Rep	N	N BDL	Concentration: Mtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	25%	50%	75%	Max	K-S D-Statistic: Gau	Log
NADP															
Hubbard Brook	1	45		.08	.07	.80	.10	.09	.01	.04	0.1	0.1	0.4	.205*	.075
New Mexico															
NADP															
Bandelier		36		.13	.17	1.07	.37	.81	.04	.08	0.2	0.3	4.8	.350*	.106
CUBA		36		.10	.12	1.21	.30	.62	.02	.05	0.1	0.3	2.8	.348*	.154*
New York															
NADP															
Aurora	2A	48		.11	.08	1.02	.25	1.07	.02	.04	0.1	0.1	7.5	.445*	.159*
Bennett Bridge	2A	46		.07	.08	.93	.13	.17	.01	.04	0.1	0.1	0.8	.295*	.129
Chautauqua	2A	44		.07	.08	1.00	.14	.19	.01	.04	0.1	0.2	1.1	.254*	.128
Huntington	2B	44		.08	.06	1.00	.11	.14	.01	.03	0.1	0.1	0.6	.294*	.089
Jasper	2A	45		.05	.06	.93	.10	.14	.01	.03	0.0	0.1	0.8	.267*	.138*
Knobit	2A	37		.08	.09	.76	.12	.12	.02	.05	0.1	0.1	0.7	.246*	.095
Stilwell Lake	2B	43		.27	.20	1.17	.57	1.80	.02	.09	0.2	0.4	11.9	.381*	.148*
MAP3s/PCN															
Brookhaven	2B	69		.76	.48	1.12	.81	.83	.03	.26	0.5	1.1	3.9	.187*	.093
Ithaca	2A	71	12	.03	.03	1.28	.07	.15	.01	.01	0.0	0.0	0.8	.363*	.176*
Whiteface	1	105	21	.04	.03	1.36	.09	.16	.01	.01	0.0	0.1	1.2	.309*	.122*
UAPSP															
Big Moose	1	146	54	.04	.03	1.04	.06	.06	-.01	.02	0.0	0.1	0.4	.198*	
North Carolina															
NADP															
Clinton Station	2A	40		.38	.27	1.06	.53	1.02	.02	.15	0.3	0.5	5.9	.356*	.110
Finley (A)	2A	42		.27	.19	1.16	.39	.62	.02	.09	0.2	0.3	3.0	.335*	.106
Lewiston	2A	42		.46	.33	1.15	.59	.67	.02	.13	0.3	0.8	2.9	.214*	.074
Piedmont Station	2A	44		.21	.15	.98	.24	.28	.02	.07	0.2	0.3	1.4	.228*	.085
UAPSP															
Raleigh	3	79	13	.27	.11	1.50	.32	.58	.00	.04	0.1	0.3	4.0	.293*	.045
Ohio															
NADP															
Caldwell	2B	47		.06	.07	.86	.11	.13	.02	.04	0.1	0.1	0.7	.249*	.158*
Delaware	2A	48		.06	.09	1.12	.17	.26	.01	.04	0.1	0.2	1.2	.291*	.116
Wooster	3	44		.06	.06	.88	.09	.09	.02	.03	0.1	0.1	0.3	.254*	.105
UAPSP															
McArthur	2A	118	58	.04	.03	1.13	.06	.11	-.01	.01	0.0	0.1	0.9	.271*	
Zanesville	3	113	41	.05	.03	1.09	.07	.10	.00	.02	0.0	0.1	0.7	.244*	
Oklahoma															
NADP															
Clayton Lake		38		.20	.19	1.01	.32	.45	.03	.09	0.2	0.3	2.3	.285*	.081
Oregon															
NADP															
Lost Creek Dam		34		.07	.09	.92	.13	.15	.02	.04	0.1	0.2	0.8	.225*	.078
Pennsylvania															
NADP															
Kane	2A	42		.06	.06	.94	.13	.35	.01	.03	0.0	0.1	2.2	.435*	.191*
Leading Ridge	1	46		.07	.07	.86	.11	.15	.02	.04	0.1	0.1	0.8	.275*	.115
MAP3s/PCN															
Penn State	2B	66	7	.06	.04	1.16	.08	.10	.01	.02	0.0	0.1	0.6	.244*	.101
UAPSP															

Sodium

State / Network / Site Name	Site Rep	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
Scranton	2A	94	42	.06	.03	1.32	.10	.19	.00	.01	0.0	0.1	1.2	.303*	
South Carolina															
NADP															
Clemson	3	43		.15	.14	.93	.21	.21	.02	.07	0.1	0.3	1.0	.219*	.079
South Dakota															
UAPSP															
Brookings	2A	52	27	.03	.02	.98	.04	.05	-.01	.01	0.0	0.0	0.2	.217*	
Tennessee															
NADP															
Walker Branch	2A	43		.07	.07	.80	.10	.10	.02	.04	0.1	0.1	0.5	.298*	.136*
MAP3s/PCN															
Oak Ridge	2B	60	2	.07	.06	1.14	.13	.21	.01	.03	0.1	0.1	1.1	.291*	.096
UAPSP															
Alamo	2B	43	12	.07	.05	1.27	.12	.22	.00	.02	0.1	0.1	1.4	.300*	
Texas															
NADP															
Forest Seed Ctr	2	39		.30	.31	1.08	.52	.59	.02	.20	0.3	0.6	2.5	.260*	.114
K-Bar	2	29		.18	.21	1.33	.53	.93	.03	.07	0.2	0.6	3.7	.295*	.095
Longview	2	37		.21	.22	.98	.35	.39	.04	.10	0.2	0.6	2.1	.227*	.113
UAPSP															
Marshall	2A	64	7	.17	.13	1.39	.30	.46	.01	.05	0.1	0.3	2.3	.263*	.059
Vermont															
NADP															
Bennington	2A	47		.09	.08	.92	.13	.20	.01	.04	0.1	0.1	1.1	.318*	.137*
UAPSP															
Underhill Center	2A	139	87	.02	.02	.90	.03	.04	-.01	.01	0.0	0.0	0.3	.223*	
Virginia															
MAP3s/PCN															
Virginia	2A	51	3	.12	.07	1.28	.15	.19	.01	.03	0.1	0.3	0.9	.251*	.103
West Virginia															
NADP															
Parsons	2A	49		.05	.05	.78	.07	.07	.01	.03	0.0	0.1	0.4	.249*	.102
Wisconsin															
NADP															
Lake Dubay	2	42		.07	.10	.99	.17	.20	.02	.06	0.1	0.2	1.0	.257*	.076
Spooner	1	41		.05	.06	.80	.09	.10	.02	.03	0.1	0.1	0.6	.238*	.113
Trout Lake	1	40		.05	.06	1.14	.12	.17	.01	.02	0.0	0.1	0.7	.301*	.107
WISC															
Legend Lake		73		.12	.13	1.16	.33	.94	.01	.06	0.1	0.2	7.7	.367*	.113*
Round Lake	1	102	4	.06	.06	1.20	.12	.19	.01	.03	0.1	0.1	1.5	.276*	.056
Wyoming															
NADP															
Newcastle		41		.10	.13	1.32	.71	3.37	.02	.05	0.1	0.3	21.7	.459*	.087
American Samoa															
NADP															
American Samoa		48		2.50	3.42	.97	5.71	7.02	.67	1.76	2.9	6.2	36.0	.280*	.134*
Alberta															
CANSAP															
Edson		11		.42	.47	.88	.60	.33	.08	.26	0.8	0.8	1.0	.228	.256*
Fort McMurray		10		.28	.26	.85	.37	.38	.10	.13	0.2	0.5	1.3	.258	.191

Sodium

State / Network / Site Name	Site Rep	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Concentration mg/l Min	Percentiles 25%	Percentiles 50%	Percentiles 75%	Max	X-S D-Statistic Gau	X-S D-Statistic Log
British Columbia															
CANSAP															
Kelowna		9	1	.44	.29	1.34	.44	.27	.02	.24	0.4	0.7	0.8	.198	.286*
Port Hardy		12		1.39	.91	.85	1.22	.94	.22	.56	0.9	1.7	3.2	.188	.123
Revelstoke		12		.12	.11	.40	.12	.05	.06	.07	0.1	0.2	0.2	.152	.114
Vancouver		12		.49	.45	.43	.48	.18	.18	.33	0.5	0.6	0.7	.175	.181
New Brunswick															
CANSAP															
Acadia Fes	3	12	2	.20	.13	1.28	.20	.14	.02	.09	0.2	0.3	0.4	.158	.218
Newfoundland															
CANSAP															
Stephenville	3	10		.64	.60	.73	.75	.52	.18	.35	0.6	1.2	1.8	.185	.146
Nova Scotia															
CANSAP															
Kejimkujik (a)	2A	12		.66	.40	1.06	.59	.45	.05	.17	0.5	1.0	1.3	.164	.185
Truro	3	11	1	.60	.32	1.54	.61	.48	.02	.09	0.8	1.0	1.3	.182	.265*
Ontario															
CANSAP															
Dorset (a)	1	12	2	.05	.04	.94	.06	.08	.02	.02	0.0	0.1	0.3	.406*	.269*
Mount Forest (a)	3	12		.31	.23	.92	.35	.37	.07	.11	0.2	0.4	1.2	.262*	.169
APIOS-C															
Coldwater	1	12		.07	.07	.71	.09	.06	.02	.05	0.1	0.1	0.2	.222	.099
Dorion	1	12	1	.05	.04	.97	.05	.04	.00	.04	0.0	0.1	0.2	.311*	.305*
Dorset (c)	1	13		.04	.04	.57	.05	.03	.01	.03	0.0	0.1	0.1	.152	.157
Gowganda	2A	12	1	.08	.04	.99	.06	.06	.01	.02	0.0	0.1	0.2	.287*	.130
Huron Park	2A	12		.06	.05	.83	.07	.05	.01	.03	0.1	0.1	0.2	.234	.154
Killarney	2A	11	1	.04	.04	.81	.04	.03	.01	.03	0.0	0.1	0.1	.210	.163
Mattawa	2A	11	1	.04	.03	.81	.04	.03	.01	.03	0.0	0.1	0.1	.161	.194
Merlin	2A	12		.12	.09	.99	.14	.12	.02	.04	0.1	0.2	0.3	.209	.143
Palmerston	2A	12		.08	.08	.82	.10	.07	.02	.05	0.1	0.2	0.2	.179	.165
Port Stanley	2B	12		.08	.06	1.03	.10	.10	.01	.03	0.0	0.2	0.3	.257*	.252*
Shallow Lake	2A	12		.05	.05	.64	.05	.03	.01	.03	0.0	0.1	0.1	.140	.163
Smith's Falls	3	12		.08	.07	.62	.08	.04	.02	.05	0.1	0.1	0.2	.150	.132
Waterloo	2A	12		.08	.08	.65	.09	.05	.02	.04	0.1	0.1	0.2	.163	.156
Wilberforce	1	12	1	.04	.04	.72	.05	.02	.01	.04	0.1	0.1	0.1	.223	.277*
Quebec															
CANSAP															
Manivaki	2B	10		.16	.14	.60	.17	.12	.06	.09	0.1	0.2	0.5	.188	.162
Sept Isles	3	11		.47	.44	.48	.49	.20	.14	.39	0.5	0.6	0.9	.193	.212

Chloride

State / Network / Site Name	Site Rep	N	N BDL	Concentration: Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	25%	50%	75%	Max	K-S D-Statistic: Gau	Log
Alabama															
UAPSP															
Selma	2A	102	2	.27	.22	1.03	.34	.30	-.01	.13	0.2	0.4	1.3	.168*	
Arizona															
NADP															
Grand Canyon		36	1	.12	.15	1.01	.26	.34	.02	.08	0.1	0.3	1.6	.257*	.134
Organ Pipe Mon.		26		.42	.56	1.47	1.54	2.19	.08	.18	0.3	2.5	7.4	.287*	.163
Arkansas															
NADP															
Fayetteville	2B	40		.19	.21	.84	.33	.50	.05	.12	0.2	0.3	2.9	.327*	.136
Warren 2WSW	2	42		.23	.24	.66	.29	.20	.04	.16	0.2	0.4	1.0	.205*	.086
California															
NADP															
Davis Site		27		.57	.40	1.05	.74	1.26	.06	.18	0.4	0.7	6.6	.294*	.088
Hopland (Ukiah)		34		.73	.42	1.02	.69	.74	.05	.20	0.4	0.9	2.9	.245*	.106
Sequoia Nat. Park		28	1	.17	.16	.93	.23	.24	.02	.09	0.1	0.3	1.1	.231*	.103
Tanbark Flat		27		.52	.42	1.12	.74	.91	.05	.27	0.4	0.9	4.5	.226*	.123
Yosemite		33	1	.16	.15	1.07	.28	.38	.02	.09	0.1	0.4	1.6	.289*	.152
Colorado															
NADP															
Manitou		38	3	.09	.11	1.01	.17	.19	.02	.08	0.1	0.2	1.1	.269*	.108
Mesa Verde		36	4	.08	.10	1.16	.19	.29	.02	.05	0.1	0.2	1.6	.300*	.137
Pawnee	2A	34		.13	.15	.88	.24	.29	.04	.09	0.1	0.2	1.3	.336*	.158*
Rocky Mt. Nat Park		46	5	.10	.12	1.23	.25	.42	.02	.08	0.1	0.2	2.5	.307*	.088
Sand Spring		44	1	.11	.14	1.11	.31	.72	.02	.07	0.1	0.3	4.7	.341*	.096
UAPSP															
Yampa	1	110	3	.09	.07	.86	.10	.13	.00	.04	0.1	0.1	1.1	.228*	
Delaware															
MAP3s/PCN															
Lewes	2A	65		2.65	1.69	1.08	2.80	2.79	.12	.71	1.7	4.3	14.6	.176*	.100
Florida															
NADP															
Bradford Forest	2A	40		.50	.53	.91	.83	1.12	.11	.25	0.6	0.9	6.8	.290*	.090
Georgia															
NADP															
Georgia Station	2A	40		.35	.29	.82	.42	.49	.05	.18	0.3	0.4	2.9	.317*	.165*
UAPSP															
Uvalda	2A	87		.32	.25	.98	.41	.46	.03	.12	0.2	0.5	2.6	.210*	.059
Hawaii															
NADP															
Mauna Loa		15		.11	.21	1.18	.56	1.19	.06	.09	0.2	0.3	4.7	.379*	.224*
Illinois															
NADP															
Argonne	3	41		.18	.20	.81	.31	.48	.04	.12	0.2	0.3	3.0	.311*	.113
Dixon Springs	2B	40		.17	.18	.61	.22	.16	.06	.13	0.2	0.3	0.9	.204*	.094
NIARC	1	40		.12	.15	.59	.17	.11	.05	.09	0.1	0.2	0.5	.173*	.077
Salem	1	36		.13	.14	.71	.21	.35	.05	.08	0.1	0.2	2.2	.329*	.103
Southern Ill U	2B	42		.18	.20	.95	.33	.40	.04	.10	0.2	0.4	2.2	.237*	.120
Indiana															
NADP															

Chloride

State / Network / Site Name	Site Rep	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	SD	Arithmetic Mean mg/l	SD mg/l	Concentration mg/l Min	25%	Percentiles 50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
Indiana Dunes	3	46		.16	.19	.79	.28	.32	.03	.12	0.2	0.3	1.7	.252*	.104
Purdue U Ag Farm	2	43		.48	.48	1.70	3.82	13.38	.06	.14	0.3	1.0	80.0	.416*	.131
UAPSP															
Fort Wayne	2A	92	1	.11	.11	.83	.15	.16	.01	.06	0.1	0.2	1.4	.192*	.063
Rockport	3	84		.13	.11	.77	.15	.13	.02	.06	0.1	0.2	0.8	.161*	.078
Kansas															
NADP															
Konza Prairie	2	39	1	.12	.14	.94	.22	.28	.02	.08	0.1	0.2	1.3	.268*	.141
UAPSP															
Lancaster	2A	70	3	.09	.07	.90	.11	.11	.00	.04	0.1	0.1	0.5	.217*	.111*
Kentucky															
UAPSP															
Morehead	2A	121	1	.14	.12	.95	.19	.22	.01	.06	0.1	0.2	1.5	.198*	.049
Maine															
NADP															
Greenville Station	2B	45	4	.12	.10	1.00	.16	.21	.02	.07	0.1	0.2	1.3	.283*	.165*
UAPSP															
Winterport	2A	100	1	.65	.19	1.30	.45	.70	.00	.08	0.2	0.4	3.8	.299*	
Massachusetts															
NADP															
East	3	46		1.03	.79	1.14	1.46	2.43	.05	.34	1.0	1.7	16.4	.281*	.115
UAPSP															
Turners Falls	2A	93		.29	.17	1.13	.35	.58	.01	.07	0.1	0.4	4.7	.282*	.066
Michigan															
NADP															
Douglas Lake	1	39	1	.10	.10	.76	.14	.13	.02	.08	0.1	0.2	0.6	.213*	.153*
Kellogg	2A	38		.13	.19	.82	.27	.28	.05	.11	0.2	0.3	1.4	.279*	.131
Wellston	2A	46	1	.12	.13	.68	.16	.10	.02	.09	0.1	0.2	0.5	.188*	.089
UAPSP															
Gaylord	2A	96	7	.07	.06	.96	.09	.11	.00	.03	0.1	0.1	0.6	.229*	.069
Minnesota															
NADP															
Fernberg	1	41	1	.11	.12	.92	.20	.34	.02	.07	0.1	0.2	1.9	.344*	.127
Marcell	2B	37	1	.11	.14	1.12	.42	1.39	.02	.07	0.1	0.2	8.5	.412*	.188*
Mississippi															
NADP															
Meridian	3	38		.32	.29	.66	.36	.24	.08	.19	0.3	0.4	0.9	.165*	.092
UAPSP															
Clinton	2A	109	2	.27	.22	1.05	.35	.36	.01	.12	0.2	0.4	2.1	.217*	.064
Missouri															
NADP															
Ashland	2	45		.15	.19	.68	.24	.20	.06	.12	0.2	0.3	0.9	.245*	.123
University Forest	2	41		.19	.17	.67	.20	.12	.03	.11	0.2	0.3	0.5	.155*	.083
Montana															
NADP															
Glacier Nat Park		41	3	.08	.10	.89	.15	.18	.02	.07	0.1	0.1	0.9	.309*	.132
Nebraska															
NADP															
Mead	2	36		.15	.16	.76	.21	.18	.04	.08	0.1	0.3	0.8	.198*	.134
New Hampshire															

Chloride

State / Network / Site Name	Site Rep	N	N BDL	Wtd Mean mg/l	Geometric Mean mg/l	SD	Arithmetic Mean mg/l	SD mg/l	Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
							Concentration			Percentiles mg/l					
NADP															
Hubbard Brook	1	45	1	.14	.13	.73	.16	.11	.02	.08	0.1	0.2	0.5	.154*	.085
New Mexico															
NADP															
Bandelier		36		.15	.20	.87	.30	.34	.05	.10	0.2	0.4	1.7	.260*	.104
CUBA		36		.12	.14	.85	.21	.24	.03	.08	0.1	0.3	1.0	.262*	.151*
New York															
NADP															
Aurora	2A	48	1	.20	.18	.89	.34	.88	.02	.12	0.2	0.3	6.2	.388*	.091
Bennett Bridge	2A	46		.17	.19	.74	.28	.38	.07	.11	0.2	0.2	2.0	.355*	.177*
Chautauqua	2A	44		.18	.20	.79	.28	.27	.04	.10	0.2	0.3	1.4	.260*	.101
Huntington	2B	44		.16	.14	.76	.19	.19	.03	.08	0.1	0.2	0.8	.299*	.160*
Jasper	2A	45	1	.12	.13	.84	.18	.18	.02	.09	0.1	0.2	1.0	.221*	.106
Knobit	2A	37		.15	.16	.68	.20	.15	.05	.09	0.2	0.2	0.6	.175*	.096
Stilwell Lake	2B	43		.48	.34	1.14	.97	3.17	.06	.16	0.3	0.8	20.9	.387*	.147*
MAP3s/PCN															
Brookhaven	2B	69		1.32	.86	1.00	1.35	1.39	.08	.43	0.9	1.8	6.7	.184*	.058
Ithaca	2A	71	6	.14	.15	.94	.23	.26	.03	.07	0.2	0.3	1.2	.244*	.076
Whiteface	1	105	10	.12	.11	.97	.19	.26	.02	.07	0.1	0.2	1.8	.282*	.113*
UAPSP															
Big Moose	1	156	2	.10	.10	.91	.16	.17	-.02	.06	0.1	0.2	1.2	.190*	
North Carolina															
NADP															
Clinton Station	2A	40		.72	.48	1.06	1.05	2.41	.08	.24	0.5	0.9	14.6	.376*	.107
Finley (A)	2A	42		.47	.35	1.04	.69	1.06	.04	.19	0.3	0.5	4.9	.360*	.187*
Lewiston	2A	42		.79	.57	1.10	1.00	1.10	.03	.26	0.5	1.4	4.3	.237*	.113
Piedmont Station	2A	44		.38	.28	.81	.38	.33	.04	.16	0.3	0.5	1.5	.190*	.069
UAPSP															
Raleigh	3	80		.49	.28	1.12	.58	1.03	.03	.12	0.3	0.6	7.2	.296*	.076
Ohio															
NADP															
Caldwell	2B	47		.17	.19	.64	.24	.19	.07	.12	0.2	0.3	1.0	.239*	.127
Delaware	2A	48		.13	.18	.87	.28	.39	.04	.10	0.2	0.3	2.3	.304*	.131*
Wooster	3	44	2	.15	.14	.85	.19	.16	.02	.09	0.1	0.2	0.9	.229*	.109
UAPSP															
McArthur	2A	121		.13	.13	.87	.19	.20	.02	.07	0.1	0.2	1.6	.196*	.064
Zanesville	3	118		.14	.14	.77	.19	.17	.02	.08	0.2	0.2	1.1	.186*	.087*
Oklahoma															
NADP															
Clayton Lake		38		.30	.27	.81	.39	.39	.05	.16	0.3	0.5	2.0	.234*	.085
Oregon															
NADP															
Lost Creek Dam		34		.12	.12	.79	.17	.15	.03	.07	0.1	0.2	0.8	.217*	.106
Pennsylvania															
NADP															
Kane	2A	42		.16	.15	.85	.28	.66	.04	.10	0.1	0.2	4.3	.401*	.186*
Leading Ridge	1	46		.15	.16	.71	.21	.21	.04	.11	0.2	0.3	1.3	.201*	.089
MAP3s/PCN															
Penn State	2B	66	2	.19	.20	.78	.28	.25	.03	.12	0.2	0.3	1.2	.220*	.070
UAPSP															

Chloride

State / Network / Site Name	Site Rep	N	N BDL	Concentration: Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	25%	50%	75%	Max	K-S D-Statistic: Gau	Log
Scranton	2A	101		.15	.12	1.16	.27	.51	.02	.06	0.1	0.2	3.9	.313*	.081
South Carolina															
NADP															
Clemson	3	43		.28	.25	.73	.32	.27	.07	.15	0.2	0.4	1.4	.170*	.118
South Dakota															
UAPSP															
Brookings	2A	52	5	.04	.05	.81	.06	.05	.00	.03	0.1	0.1	0.3	.191*	
Tennessee															
NADP															
Walker Branch	2A	43		17	.17	.58	.20	.12	.05	.10	0.2	0.3	0.6	.144*	.096
MAP3s/PCN															
Oak Ridge	2B	60	1	.19	.20	.65	.24	.16	.06	.12	0.2	0.3	0.7	.152*	.064
UAPSP															
Alamo	2B	44		.13	.11	1.17	.24	.42	.01	.05	0.1	0.2	2.1	.330*	.098
Texas															
NADP															
Forest Seed Ctr	2	39		.50	.51	1.08	.87	1.08	.05	.32	0.6	1.0	5.3	.256*	.108
K-Bar	2	29		.16	.22	.95	.34	.32	.04	.10	0.2	0.5	1.2	.260*	.093
Longview	2	37		.35	.36	.85	.50	.41	.06	.17	0.4	0.8	1.6	.165*	.115
UAPSP															
Marshall	2A	65		.26	.24	1.03	.41	.48	.04	.11	0.2	0.6	2.2	.220*	.078
Vermont															
NADP															
Bennington	2A	47		.17	.14	.80	.21	.27	.05	.08	0.1	0.2	1.3	.302*	.130*
UAPSP															
Underhill Center	2A	145	5	.05	.07	.95	.10	.10	-.01	.03	0.1	0.1	0.5	.169*	
Virginia															
MAP3s/PCN															
Virginia	2A	51	1	.32	.22	.85	.31	.32	.05	.15	0.2	0.4	1.6	.234*	.083
West Virginia															
NADP															
Parsons	2A	49	1	.11	.11	.77	.14	.12	.02	.08	0.1	0.2	0.6	.227*	.107
Wisconsin															
NADP															
Lake Dubay	2	42		.13	.19	.81	.26	.25	.03	.11	0.1	0.3	1.0	.236*	.139*
Spooner	1	41	1	.11	.10	.80	.14	.12	.02	.06	0.1	0.2	0.6	.212*	.084
Trout Lake	1	40	3	.09	.10	.96	.16	.18	.02	.07	0.1	0.2	1.0	.280*	.151*
WISC															
Legend Lake		72	6	.25	.22	.97	.34	.33	.02	.13	0.2	0.4	1.7	.192*	.073
Round Lake	1	101	25	.17	.12	1.22	.26	.43	.03	.07	0.1	0.3	2.3	.282*	.100*
Wyoming															
NADP															
Newcastle		41	1	.13	.16	.98	.31	.74	.02	.09	0.1	0.2	4.7	.401*	.164*
American Samoa															
NADP															
American Samoa		48		4.56	6.17	.98	10.39	12.81	1.26	3.07	5.1	11.2	64.9	.288*	.137*
Alberta															
CANSAP															
Fort McMurray		10		.46	.45	.77	.58	.46	.15	.24	0.4	0.9	1.6	.239	.210
British Columbia															

Chloride

State / Network / Site Name	Site Rep	N	N BDL	Concentration: Wtd Mean mg/l	Geometric Mean mg/l	Geometric SD	Arithmetic Mean mg/l	Arithmetic SD mg/l	Percentiles mg/l: Min	25%	50%	75%	Max	K-S D-Statistic: Gau	Log
CANSAP															
Kelowna		9		.50	.43	.60	.50	.27	.18	.23	0.5	0.7	1.0	.151	.203
Port Hardy		12		2.41	1.54	.89	2.15	1.81	.32	.98	1.5	2.9	6.2	.234	.129
Revelstoke		12	1	.18	.16	.64	.18	.07	.05	.14	0.2	0.2	0.3	.159	.183
Vancouver		12		.86	.80	.43	.86	.32	.33	.57	0.9	1.1	1.3	.145	.183
New Brunswick															
CANSAP															
Acadia Fes	3	12		.36	.29	.74	.36	.22	.07	.14	0.3	0.5	0.8	.177	.189
Newfoundland															
CANSAP															
Stephenville	3	10		1.07	.98	.72	1.22	.82	.28	.57	1.1	2.0	2.6	.235	.137
Nova Scotia															
CANSAP															
Kejimkujik (a)	2A	12		1.12	.62	1.15	1.00	.82	.10	.18	0.9	1.8	2.3	.170	.179
Truro	3	11		1.05	.68	1.15	1.06	.80	.09	.25	1.3	1.7	2.3	.192	.270*
Ontario															
CANSAP															
Dorset (a)	1	12		.14	.16	.68	.20	.18	.08	.09	0.1	0.2	0.6	.353*	.211
Mount Forest (a)	3	12		.49	.42	.83	.59	.56	.15	.18	0.4	0.7	2.0	.269*	.141
APIOS-D															
Balsam Lake	1	107		.12	.13	.84	.19	.21	.02	.07	0.1	0.2	1.4	.224*	.064
Melbourne	2A	87		.17	.18	.82	.24	.20	.02	.10	0.2	0.3	1.1	.162*	.061
Raven Lake	1	119		.15	.16	.87	.24	.28	.02	.09	0.2	0.3	2.0	.237*	.068
Wellesley	2B	101	1	.12	.14	.85	.18	.14	.01	.08	0.2	0.2	0.7	.122*	.087
APIOS-C															
Coldwater	1	13		.18	.17	.56	.20	.12	.07	.12	0.2	0.3	0.4	.217	.151
Dorion	1	11	1	.07	.06	.97	.08	.05	.01	.05	0.1	0.1	0.2	.159	.171
Dorset (c)	1	12		.08	.09	.55	.10	.04	.02	.06	0.1	0.1	0.1	.314*	.331*
Govganda	2A	11		.16	.10	.61	.12	.09	.04	.07	0.1	0.2	0.4	.261*	.145
Huron Park	2A	12		.15	.16	.70	.19	.11	.03	.12	0.2	0.3	0.4	.154	.128
Mattawa	2A	11		.09	.09	.41	.10	.05	.05	.08	0.1	0.1	0.2	.261*	.173
Merlin	2A	12		.26	.24	.72	.30	.18	.04	.19	0.2	0.4	0.7	.271*	.279*
Palmerston	2A	12		.17	.18	.51	.20	.10	.07	.12	0.2	0.3	0.4	.212	.180
Port Stanley	2B	12		.23	.22	.69	.27	.17	.05	.15	0.2	0.4	0.6	.293*	.183
Smith's Falls	3	12		.14	.13	.50	.14	.06	.04	.10	0.1	0.2	0.3	.149	.140
Waterloo	2A	11		.21	.21	.40	.23	.09	.12	.16	0.2	0.3	0.4	.255*	.206
Wilberforce	1	13		.10	.10	.29	.10	.03	.07	.07	0.1	0.1	0.2	.162	.160
Quebec															
CANSAP															
Maniwaki	2B	10		.25	.22	.53	.26	.17	.10	.16	0.2	0.3	0.7	.272*	.161
Sept Isles	3	11		.76	.70	.41	.75	.24	.24	.60	0.8	0.8	1.2	.180	.205

Specific Conductance

State / Network / Site Name	Site Rep	N	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
			Units: umho/cm					Percentiles					
Alabama													
UAPSP													
Selma	2A	103	17.18	.85	25.54	28.63	4.00	9.67	16.0	30.0	199.0	.226*	.084
Arizona													
NADP													
Grand Canyon		36	7.77	.76	10.63	9.87	2.20	4.35	6.1	12.8	45.5	.238*	.172*
Organ Pipe Mon.		26	10.80	.90	15.48	13.14	2.60	4.78	12.4	22.6	51.9	.165	.140
Arkansas													
NADP													
Fayetteville	2B	40	13.36	.53	15.72	11.61	5.40	9.08	13.0	18.5	69.0	.224*	.124
Warren 2WSW	2	42	13.74	.68	17.33	13.17	3.90	8.98	14.5	21.2	66.2	.198*	.068
California													
NADP													
Davis Site		28	8.87	.58	10.58	7.05	3.10	6.13	7.4	12.9	30.6	.241*	.185*
Hopland (Ukiah)		34	6.14	.56	7.25	5.06	2.30	4.33	5.8	8.6	29.0	.204*	.105
Sequoia Nat. Park		28	6.10	.81	8.60	8.35	2.10	3.03	5.3	12.9	37.3	.228*	.122
Tanbark Flat		27	14.35	1.00	24.47	32.05	3.30	5.90	12.4	29.6	156.6	.257*	.098
Yosemite		33	5.75	.76	7.70	6.46	2.10	3.05	4.4	9.5	27.2	.210*	.153
Colorado													
NADP													
Manitou		39	10.52	.60	12.52	7.90	2.90	7.10	9.8	16.0	40.0	.194*	.104
Mesa Verde		36	10.52	.83	16.05	22.80	3.40	5.73	9.0	18.2	136.5	.290*	.145
Pawnee	2A	34	10.58	.60	12.76	9.34	2.80	7.75	9.5	15.4	48.0	.226*	.127
Rocky Mt. Nat Park		46	10.17	.88	15.35	16.49	2.40	4.60	10.3	17.7	66.8	.245*	.105
Sand Spring		46	12.04	.81	17.97	23.62	2.90	6.48	10.5	19.3	145.8	.279*	.133*
UAPSP													
Yampa	1	117	7.05	.64	8.64	6.01	2.10	4.35	7.1	11.0	38.8	.139*	.079
Delaware													
MAP3s/PCN													
Lewes	2A	65	30.43	.69	38.14	27.39	6.30	21.00	30.0	48.0	130.0	.197*	.087
Florida													
NADP													
Bradford Forest	2A	40	14.94	.69	19.59	18.41	4.40	10.30	12.6	24.0	92.8	.255*	.125
Georgia													
NADP													
Georgia Station	2A	40	15.90	.61	19.08	12.30	5.20	9.65	14.8	24.4	59.1	.171*	.103
UAPSP													
Uvalda	2A	87	11.51	.77	15.86	15.94	2.50	6.80	11.0	19.0	89.0	.203*	.079
Hawaii													
NADP													
Mauna Loa		15	6.70	1.09	13.53	23.69	1.50	2.90	5.0	9.6	95.3	.366*	.170
Illinois													
NADP													
Argonne	3	41	29.03	.49	33.25	22.21	12.70	21.45	27.4	36.2	139.6	.257*	.147*
Bondville	2A	38	28.60	.46	31.91	16.57	15.50	19.65	25.4	39.4	73.6	.263*	.192*
Dixon Springs	2B	42	23.28	.55	26.80	14.56	5.80	16.08	25.4	36.1	76.5	.153*	.084
NIARC	1	40	22.10	.48	24.73	12.43	8.00	17.42	22.7	29.7	59.3	.200*	.110
Salem	1	36	23.51	.60	30.15	36.23	8.70	18.33	21.5	28.3	230.0	.319*	.171*
Southern Ill U	2B	42	21.87	.57	25.83	17.19	6.50	15.88	21.9	30.9	93.1	.190*	.084
Indiana													

Specific Conductance

Units: umho/cm

State / Network / Site Name	Site Rep	N	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
NADP													
Indiana Dunes	3	47	27.49	.58	32.60	22.61	6.30	19.50	28.5	37.7	143.3	.183*	.069
Purdue U Ag Farm	2	44	43.79	1.06	107.1	252.8	8.30	22.20	33.5	58.2	1376.	.390*	.165*
UAPSP													
Fort Wayne	2A	92	26.75	.55	30.84	16.88	7.30	18.25	27.0	40.0	94.0	.134*	.048
Rockport	3	85	27.71	.62	34.07	25.71	6.70	19.00	26.0	41.5	158.0	.195*	.086
Kansas													
NADP													
Konza Prairie	2	39	13.80	.71	18.72	20.98	4.00	8.90	13.6	18.4	115.6	.336*	.157*
UAPSP													
Lancaster	2A	70	13.76	.57	16.35	11.61	3.78	9.63	13.0	19.5	85.0	.167*	.077
Kentucky													
UAPSP													
Morehead	2A	125	28.52	.82	40.33	40.10	5.30	16.60	30.0	50.6	250.0	.191*	.055
Maine													
NADP													
Greenville Station	2B	46	9.83	.87	13.76	11.08	2.40	5.08	11.1	20.0	50.6	.161*	.086
UAPSP													
Winterport	2A	102	17.05	.89	24.77	22.17	2.10	7.89	17.0	33.5	100.0	.163*	.079
Massachusetts													
NADP													
East	3	46	27.63	.77	40.80	60.23	5.80	16.28	26.5	43.4	402.8	.283*	.104
UAPSP													
Turners Falls	2A	93	22.50	.89	32.34	29.54	3.70	11.30	23.0	45.0	199.0	.166*	.081
Michigan													
NADP													
Douglas Lake	1	39	20.64	.59	25.79	26.42	7.20	14.50	17.5	28.5	171.3	.259*	.131
Kellogg	2A	38	35.83	.56	41.88	25.19	13.90	23.75	33.3	48.2	104.6	.187*	.094
Wellston	2A	46	23.71	.53	27.47	17.17	8.70	17.10	23.8	30.8	90.9	.201*	.090
UAPSP													
Gaylord	2A	100	18.11	.75	23.71	19.28	2.40	11.00	21.0	27.5	130.0	.193*	.108*
Minnesota													
NADP													
Fernberg	1	41	10.11	.69	12.77	9.23	2.90	5.55	10.3	14.5	40.8	.202*	.079
Marcell	2B	38	13.54	.63	17.28	16.95	3.80	9.45	13.7	15.9	81.6	.326*	.173*
Mississippi													
NADP													
Meridian	3	38	13.06	.60	15.44	9.06	4.10	7.18	13.7	22.6	41.4	.129	.108
UAPSP													
Clinton	2A	110	16.35	.79	22.68	21.08	2.90	9.98	15.0	25.5	100.0	.233*	.089*
Missouri													
NADP													
Ashland	2	45	18.75	.57	22.50	17.85	5.80	13.20	18.2	24.8	116.3	.238*	.100
University Forest	2	41	16.98	.58	19.95	12.04	3.30	11.90	16.7	25.0	66.9	.137	.066
Montana													
NADP													
Glacier Nat Park		40	6.10	.60	7.52	6.44	2.60	4.05	5.4	8.8	35.1	.226*	.106
Nebraska													
NADP													
Mead	2	37	17.92	.66	22.59	18.22	6.80	10.10	14.9	29.3	88.8	.193*	.124

Specific Conductance

State / Network / Site Name	Site Rep	N	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
			Units: umho/cm										
New Hampshire													
NADP													
Hubbard Brook	1	45	17.10	.78	22.52	17.68	2.80	11.00	17.3	28.6	96.5	.171*	.089
New Mexico													
NADP													
Bandelier		37	10.48	.73	13.78	11.17	3.50	5.45	10.0	17.2	44.5	.184*	.128
CUBA		38	10.66	.77	14.58	13.76	3.40	5.53	10.1	18.0	63.7	.208*	.117
New York													
NADP													
Aurora	2A	48	31.10	.69	38.77	25.52	7.90	17.58	30.6	50.1	101.0	.187*	.082
Bennett Bridge	2A	46	29.90	.69	39.22	37.78	8.00	17.28	28.5	50.6	203.7	.218*	.111
Chautauqua	2A	44	29.84	.51	34.09	20.19	10.10	21.20	30.0	42.5	118.9	.181*	.108
Huntington	2B	44	18.83	.85	26.76	25.18	4.40	10.10	17.8	31.4	118.6	.196*	.095
Jasper	2A	45	25.03	.62	30.44	21.79	8.20	16.35	25.1	39.3	124.3	.182*	.062
Knobit	2A	37	18.75	.98	30.23	35.39	4.10	7.40	22.3	39.0	170.2	.230*	.105
Stilwell Lake	2B	43	28.11	.77	38.46	36.12	5.30	13.90	28.2	42.0	180.7	.228*	.077
MAP3s/PCM													
Brookhaven	2B	68	25.51	.73	33.73	29.44	6.40	15.25	24.5	41.0	170.0	.192*	.068
Ithaca	2A	70	30.30	.68	38.65	31.25	7.20	19.00	28.0	48.5	170.0	.196*	.083
Whiteface	1	104	20.31	.80	27.76	25.13	3.20	11.00	21.5	34.0	160.0	.175*	.059
UAPSP													
Big Moose	1	159	21.82	.93	32.18	28.64	2.30	10.30	25.0	42.7	138.0	.149*	.081*
North Carolina													
NADP													
Clinton Station	2A	40	18.81	.70	24.16	18.86	6.30	11.38	16.5	38.2	82.3	.254*	.138
Finley (A)	2A	42	19.74	.83	27.08	21.70	4.90	11.10	20.1	36.7	81.7	.192*	.085
Lewiston	2A	42	23.55	.74	30.95	24.76	6.30	12.73	24.0	36.7	99.4	.192*	.056
Piedmont Station	2A	45	21.90	.76	29.13	23.61	4.90	12.75	19.9	37.3	98.4	.198*	.078
UAPSP													
Raleigh	3	81	19.05	.84	26.56	23.34	3.62	9.50	19.2	35.0	138.0	.172*	.080
Ohio													
NADP													
Caldwell	2B	47	32.56	.58	39.23	29.33	10.20	22.40	29.9	42.9	145.0	.233*	.130*
Delaware	2A	48	31.06	.60	38.69	34.62	9.20	20.48	26.7	44.6	198.2	.270*	.162*
Wooster	3	44	27.82	.50	32.16	21.69	11.70	20.18	26.9	30.8	123.5	.306*	.195*
UAPSP													
McArthur	2A	122	30.70	.62	38.38	37.84	8.13	19.63	30.5	47.5	370.0	.223*	.054
Zanesville	3	120	33.09	.55	38.56	22.94	10.60	21.00	32.1	49.9	140.0	.126*	.054
Oklahoma													
NADP													
Clayton Lake		38	17.70	.56	20.56	11.82	4.90	13.78	17.4	26.8	60.8	.159*	.100
Oregon													
NADP													
Lost Creek Dam		34	4.77	.73	7.68	16.17	1.90	3.03	3.9	7.4	98.0	.379*	.149
Pennsylvania													
NADP													
Kane	2A	42	29.66	.60	35.68	25.59	8.40	18.73	30.9	40.2	154.7	.222*	.148*
Leading Ridge	1	46	26.60	.82	36.04	30.23	3.70	14.85	30.2	46.3	158.8	.176*	.080
UAPSP													
Scranton	2A	103	27.59	.88	39.61	36.31	2.40	15.00	29.0	47.0	170.0	.179*	.047

Specific Conductance

State / Network / Site Name	Site Rep	N	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
			Units: umho/cm				Percentiles						
South Carolina													
NADP													
Clemson	3	43	23.39	.78	31.26	25.36	4.50	11.70	22.8	43.1	121.0	.173*	.077
South Dakota													
UAPSP													
Brookings	2A	53	9.37	.66	11.49	7.89	1.50	6.10	10.0	15.0	47.0	.161*	.080
Tennessee													
NADP													
Walker Branch	2A	43	20.30	.66	26.03	23.57	6.80	12.20	20.7	30.2	126.4	.282*	.128
MAP3s/PCN													
Oak Ridge	2B	59	25.10	.73	34.30	35.98	7.10	15.00	25.0	33.0	210.0	.307*	.134*
UAPSP													
Alamo	2B	44	14.52	.80	20.01	18.35	3.90	7.15	15.0	29.0	105.0	.190*	.098
Texas													
NADP													
Forest Seed Ctr	2	39	15.60	.59	18.91	14.13	6.60	10.00	14.2	21.3	70.6	.207*	.124
K-Bar	2	29	11.13	.88	17.12	22.19	2.30	5.75	10.0	18.9	118.6	.275*	.122
Longview	2	39	17.36	.64	21.58	16.41	5.70	10.00	16.3	26.1	84.6	.199*	.098
UAPSP													
Marshall	2A	67	16.70	.72	22.80	26.78	3.80	9.90	17.0	23.0	198.0	.258*	.092
Vermont													
NADP													
Bennington	2A	47	18.18	.85	25.64	22.48	4.00	7.50	19.4	37.4	105.4	.168*	.124
UAPSP													
Underhill Center	2A	148	19.50	.99	30.30	30.13	2.30	9.63	20.3	43.0	165.0	.176*	.052
Virginia													
MAP3s/PCN													
Virginia	2A	51	26.41	.71	34.06	25.85	9.20	15.00	24.0	48.0	110.0	.235*	.115
West Virginia													
NADP													
Parsons	2A	49	22.91	.79	30.56	23.38	4.20	13.50	20.8	44.7	93.1	.186*	.095
Wisconsin													
NADP													
Lake Dubay	2	43	22.27	.59	26.70	18.54	7.00	14.40	24.0	31.9	98.3	.180*	.074
Spooner	1	41	13.99	.47	15.56	7.42	5.80	9.40	13.5	21.6	35.1	.169*	.096
Trout Lake	1	40	15.63	.62	18.83	12.81	3.60	10.80	15.7	22.6	69.5	.192*	.086
WISC													
Legend Lake		74	24.97	.68	31.16	22.58	6.00	16.50	27.5	42.3	153.0	.141*	.067
Round Lake	1	103	17.59	.67	21.67	14.33	3.10	12.00	19.0	27.0	93.0	.122*	.071
Wyoming													
NADP													
Newcastle		41	10.38	.75	15.07	22.38	2.80	7.05	10.8	13.5	143.7	.362*	.178*
American Samoa													
NADP													
American Samoa		48	27.47	.89	42.60	48.63	6.30	14.73	22.5	46.0	249.6	.276*	.155*
Alberta													
CANSAP													
Fort McMurray		10	14.67	.57	17.08	10.39	6.17	9.61	12.5	23.5	40.2	.227	.203
Rocky Mtn House		11	19.98	.55	22.71	11.56	8.24	13.80	19.2	34.7	41.9	.165	.117
British Columbia													

Specific Conductance

Units: umho/cm

State / Network / Site Name	Site Rep	N	Geometric Mean	Geometric SD	Arithmetic Mean	Arithmetic SD	Min	25%	50%	75%	Max	K-S D-Statistic Gau	K-S D-Statistic Log
CANSAP													
Kelowna		10	15.57	1.26	59.64	153.0	6.50	7.66	11.2	16.6	495.0	.507*	.356*
Port Hardy		12	13.55	.45	14.80	6.41	6.62	9.54	15.3	16.6	26.5	.217	.167
Revelstoke		12	6.18	.21	6.31	1.31	4.41	5.10	6.3	7.3	9.0	.098	.121
Vancouver		12	20.13	.39	21.59	8.54	11.10	16.05	19.0	27.8	36.4	.196	.156
New Brunswick													
CANSAP													
Acadia Fes	3	12	21.37	.45	23.60	11.82	9.95	17.40	18.7	30.9	49.9	.302*	.247*
Newfoundland													
CANSAP													
Stephenville	3	10	17.54	.36	18.59	6.63	9.96	12.50	17.7	22.8	32.1	.141	.178
Nova Scotia													
CANSAP													
Kejimkujik (a)	2A	12	13.61	.30	14.18	4.49	7.96	11.30	14.1	15.5	25.9	.251*	.203
Truro	3	11	19.39	.38	20.60	6.94	8.65	17.20	20.3	26.6	32.4	.131	.195
Ontario													
CANSAP													
Dorset (a)	1	12	33.83	.29	35.14	10.51	20.50	27.85	35.2	37.0	59.4	.253*	.206
Mount Forest (a)	3	12	31.83	.46	35.54	20.77	17.40	23.53	27.0	40.3	94.4	.228	.185
APIOS-C													
Colchester	2A	10	37.72	.33	39.71	14.01	24.70	27.83	36.0	49.0	67.0	.191	.140
Coldwater	1	13	24.69	.44	26.75	10.53	10.80	19.85	26.2	32.1	51.0	.187	.167
Dorion	1	13	14.18	.67	17.14	10.85	3.20	9.15	14.3	23.8	43.3	.230	.141
Dorset (c)	1	13	28.69	.24	29.44	7.04	18.50	25.40	28.6	32.3	46.8	.178	.145
Expt. Lake Area	2A	11	12.06	.58	14.05	7.94	5.90	7.20	10.7	21.2	28.0	.235	.220
Golden Lake	1	12	24.57	.51	27.76	14.60	12.50	15.90	23.0	42.1	55.5	.182	.174
Gowganda	2A	12	20.07	.48	22.16	9.75	10.00	12.25	22.7	31.5	37.0	.179	.143
Huron Park	2A	11	33.46	.41	36.21	15.39	18.80	24.40	30.8	51.0	61.0	.214	.156
Mattawa	2A	12	25.20	.28	26.13	7.22	14.80	20.25	25.3	31.2	39.5	.147	.108
Merlin	2A	11	37.34	.29	38.73	10.87	24.60	28.40	40.7	45.0	56.0	.143	.164
Palmerston	2A	11	26.05	.27	27.01	8.19	18.60	21.50	23.9	30.5	46.0	.280*	.254*
Port Stanley	2B	11	34.17	.64	39.68	18.36	10.50	22.30	47.8	52.0	65.0	.216	.261*
Smith's Falls	3	10	21.94	.51	24.60	12.43	10.40	14.35	21.1	36.6	48.0	.202	.154
Waterloo	2A	11	28.22	.29	29.36	8.74	19.00	22.90	25.8	39.0	44.0	.204	.165
Wilberforce	1	13	30.35	.35	32.03	10.64	17.20	21.35	31.1	41.5	48.2	.145	.161
Quebec													
CANSAP													
Maniwaki	2B	10	21.09	.29	21.89	6.11	12.80	16.05	22.6	26.9	32.0	.124	.139
Saskatchewan													
CANSAP													
Wynyard		9	23.49	.65	28.36	18.98	7.92	15.85	19.3	42.0	68.0	.239	.174

Precipitation

State / Network / Site Name	Site Rep	N	Concentration: Geometric Mean cm	GSD	Arithmetic Mean cm	SD cm	Percentiles cm: Min	25%	50%	75%	Max	K-S D-Statistic: Gau	Log
Alabama													
UAPSP													
Selma	2A	104	.88	1.25	1.70	1.88	.08	.38	0.9	2.5	9.6	.194*	.092*
Alaska													
NADP													
Mt. Mckinley Park		43	.29	1.81	1.00	2.09	.00	.08	0.4	1.3	13.3	.317*	.099
Arizona													
NADP													
Grand Canyon		42	.53	1.61	1.23	1.33	.01	.15	1.0	1.7	5.3	.179*	.177*
Oliver Knoll		38	.31	2.08	1.22	2.41	.00	.10	0.5	1.4	14.1	.306*	.129
Organ Pipe Mon.		31	.36	2.03	1.51	2.37	.01	.10	0.3	2.7	11.1	.277*	.115
Arkansas													
NADP													
Buffalo River	2A	50	.54	2.38	2.16	2.58	.00	.20	1.2	3.2	9.1	.201*	.169*
Fayetteville	2B	44	1.04	1.57	2.06	1.92	.00	.60	1.3	3.3	6.6	.182*	.135*
Warren 2WSW	2	48	1.23	1.71	2.76	2.81	.01	.52	1.8	4.4	12.0	.164*	.130*
California													
NADP													
Davis Site		31	.88	2.20	2.96	3.16	.01	.13	2.6	4.5	11.2	.175*	.235*
Hopland (Ukiah)		35	1.92	2.05	5.22	5.08	.00	.86	4.1	8.5	18.2	.159*	.176*
Sequoia Nat. Park		36	1.06	2.42	4.13	4.88	.00	.29	2.2	6.3	17.1	.199*	.187*
Tanbark Flat		35	.77	2.50	3.75	5.04	.00	.18	1.5	5.4	22.9	.229*	.134
Yosemite		39	1.42	2.55	5.90	6.43	.00	.51	2.8	10.0	21.1	.220*	.180*
Colorado													
NADP													
Alamosa		41	.22	1.45	.45	.53	.00	.07	0.3	0.6	2.7	.196*	.155*
Manitou		46	.40	1.80	1.06	1.20	.00	.10	0.7	1.6	6.0	.189*	.175*
Mesa Verde		47	.47	1.75	1.22	1.41	.00	.13	0.7	2.4	6.7	.204*	.128
Pawnee	2A	41	.41	1.59	.91	1.01	.00	.16	0.6	1.3	4.8	.185*	.138
Rocky Mt. Nat Park		49	.47	1.36	.92	.92	.01	.17	0.5	1.7	3.6	.203*	.121
Sand Spring		51	.47	1.26	.84	.82	.03	.20	0.6	1.1	3.4	.162*	.140*
UAPSP													
Yampa	1	124	.25	.72	.32	.27	.05	.15	0.3	0.4	1.5	.209*	.097*
Delaware													
MAP3s/PCN													
Lewes	2A	75	.88	1.50	1.93	2.23	.03	.30	1.3	2.9	11.8	.196*	.143*
Florida													
NADP													
Bradford Forest	2A	48	1.67	1.66	3.31	3.04	.00	.95	2.3	4.6	11.4	.162*	.155*
Everglades Nat. Pa	2A	49	1.22	1.76	3.36	4.15	.03	.50	1.4	5.2	19.3	.217*	.095
Georgia													
NADP													
Georgia Station	2A	50	.95	1.92	2.45	2.72	.00	.43	1.4	3.7	12.3	.184*	.174*
UAPSP													
Uvalda	2A	92	.66	1.29	1.33	1.64	.03	.31	0.7	1.8	8.5	.217*	.073
Hawaii													
NADP													
Mauna Loa		18	.20	1.83	.85	1.60	.01	.03	0.2	0.7	6.2	.330*	.127
Idaho													
NADP													

Precipitation

State / Network / Site Name	Site Rep	N	Concentration: Geometric Mean cm	Geometric SD	Arithmetic Mean cm	Arithmetic SD cm	Percentiles cm: Min	25%	50%	75%	Max	K-S D-Statistic: Gau	Log
Craters of Moon		41	.74	1.17	1.20	1.04	.03	.42	0.9	1.7	4.8	.172*	.116
Headquarters		45	1.49	1.26	2.52	2.16	.03	.85	1.6	3.4	7.7	.170*	.151*
Illinois													
NADP													
Argonne	3	49	.97	1.69	2.30	2.66	.00	.36	1.3	3.2	13.5	.194*	.111
Bondville	2A	48	.64	2.01	2.00	2.57	.00	.14	1.4	2.8	12.4	.218*	.181*
Dixon Springs	2B	47	.93	2.32	3.12	4.09	.00	.64	1.9	3.9	23.2	.223*	.210*
NIARC	1	52	.61	1.98	1.93	3.01	.00	.25	0.8	2.4	19.0	.262*	.118
Salem	1	41	.81	2.26	2.50	2.86	.00	.32	1.7	3.5	14.1	.191*	.212*
Southern Ill U	2B	51	.49	2.51	2.29	3.61	.00	.08	1.5	3.2	22.6	.263*	.192*
MAP3s/PCN													
Illinois	2A	94	.19	2.39	1.03	1.69	.00	.02	0.4	1.7	12.4	.271*	.133*
Indiana													
NADP													
Indiana Dunes	3	50	.86	1.68	1.87	1.84	.00	.47	1.4	2.8	7.7	.155*	.147*
Purdue U Ag Farm	2	47	.82	1.53	1.81	2.38	.03	.36	1.2	2.5	12.5	.227*	.132*
UAPSP													
Fort Wayne	2A	108	.39	1.38	.82	.98	.01	.18	0.5	1.1	5.0	.209*	.085*
Rockport	3	85	.88	1.08	1.46	1.66	.05	.41	1.0	1.8	11.2	.197*	.063
Kansas													
NADP													
Konza Prairie	2	45	.63	1.79	1.69	1.81	.01	.17	1.3	2.8	6.0	.176*	.167*
UAPSP													
Lancaster	2A	78	.68	1.10	1.11	1.10	.03	.38	0.9	1.4	6.7	.162*	.101*
Kentucky													
UAPSP													
Morehead	2A	131	.38	1.29	.78	.92	.03	.13	0.4	1.1	4.3	.207*	.074
Louisiana													
NADP													
Iberia	2	47	1.40	2.08	3.68	3.51	.00	.58	3.0	5.6	15.0	.148*	.194*
N La Hill Farm	2	45	.74	2.31	2.68	2.98	.00	.19	1.4	4.7	10.9	.200*	.220*
Southeast		43	1.98	1.73	4.31	4.23	.01	1.09	3.4	6.8	18.6	.154*	.165*
Maine													
NADP													
Acadia > 11/81	1	52	1.91	1.56	3.72	3.44	.03	1.50	3.0	5.6	18.1	.141*	.210*
Caribou (a)	2B	50	1.25	1.56	2.35	1.83	.01	.87	1.9	3.4	7.0	.111	.213*
Greenville Station	2B	52	1.67	1.34	2.79	2.23	.03	1.15	2.5	3.8	10.3	.107	.182*
UAPSP													
Winterport	2A	106	.67	1.37	1.49	1.92	.03	.22	0.7	2.3	10.5	.223*	.076
Massachusetts													
NADP													
Cadwell	2A	49	1.83	1.36	3.08	2.32	.03	1.07	2.9	4.5	7.9	.097	.172*
East	3	49	1.75	1.16	2.73	2.14	.03	1.06	2.3	3.8	8.7	.121	.173*
NACL	3	49	2.08	1.26	3.28	2.72	.01	1.48	2.8	4.3	15.1	.142*	.172*
UAPSP													
Turners Falls	2A	96	.86	1.26	1.52	1.35	.05	.37	1.2	2.3	5.3	.139*	.120*
Michigan													
NADP													
Douglas Lake	1	48	.96	1.57	1.86	1.72	.00	.50	1.4	2.8	8.2	.140*	.164*
Kellogg	2A	49	.81	1.80	1.93	1.87	.00	.41	1.6	3.1	8.2	.152*	.155*

Precipitation

State / Network / Site Name	Site Rep	N	Concentration: Geometric Mean cm	GSD	Arithmetic Mean cm	SD cm	Percentiles cm: Min	25%	50%	75%	Max	K-S D-Statistic: Gau	Log
Wellston	2A	49	1.36	1.03	1.98	1.54	.10	.89	1.8	2.8	8.5	.111	.142*
UAPSP													
Gaylord	2A	111	.48	1.06	.81	.89	.05	.20	0.5	1.1	4.8	.196*	.070
Minnesota													
NADP													
Fernberg	1	47	.66	2.01	1.89	2.43	.00	.31	1.1	2.8	10.7	.222*	.166*
Lamberton	1	46	.55	1.76	1.38	1.58	.00	.30	0.6	2.5	6.9	.224*	.135*
Marcell	2B	49	.67	1.61	1.43	1.50	.00	.31	1.0	2.1	6.8	.175*	.144*
APIOS-D													
Fernberg	1	76	.56	1.42	1.10	1.31	.01	.25	0.8	1.5	9.1	.203*	.136*
Mississippi													
NADP													
Meridian	3	47	1.71	2.00	3.77	3.29	.00	1.09	2.8	5.5	12.0	.128	.197*
UAPSP													
Clinton	2A	112	.72	1.48	1.69	2.07	.02	.25	0.7	2.3	10.6	.211*	.087*
Missouri													
NADP													
Ashland	2	50	.68	2.16	2.07	2.43	.00	.28	1.3	2.8	9.7	.197*	.156*
University Forest	2	49	.81	2.06	2.33	2.51	.00	.31	1.6	4.1	10.5	.179*	.163*
Montana													
NADP													
Give Out Morgan		38	.18	1.63	.46	.64	.00	.10	0.2	0.5	2.8	.293*	.160*
Glacier Nat Park		47	.85	1.58	1.77	1.80	.00	.46	1.0	2.8	8.7	.168*	.134*
Nebraska													
NADP													
Mead	2	46	.45	2.08	1.44	1.65	.00	.15	0.6	2.7	6.6	.239*	.134*
New Hampshire													
NADP													
Hubbard Brook	1	51	1.66	1.20	2.56	1.85	.05	1.07	2.3	3.7	7.7	.105	.177*
New Jersey													
NADP													
Washington Xing	3	46	1.39	1.95	3.09	2.49	.00	.61	3.0	4.4	10.3	.108	.237*
New Mexico													
NADP													
Bandelier		45	.32	1.78	.82	1.00	.00	.14	0.5	0.9	4.7	.234*	.131
CUBA		44	.43	1.29	.79	.84	.03	.25	0.6	0.9	3.8	.225*	.148*
New York													
NADP													
Aurora	2A	50	1.04	1.09	1.59	1.31	.03	.53	1.3	2.3	5.1	.136*	.109
Bennett Bridge	2A	47	2.12	1.06	3.06	2.10	.08	1.42	2.5	4.0	7.4	.114	.142*
Chautauqua	2A	51	.98	1.82	2.05	1.81	.00	.76	1.8	3.1	9.1	.129*	.231*
Huntington	2B	52	1.27	1.50	2.27	1.97	.00	.77	1.9	3.1	9.0	.174*	.182*
Jasper	2A	49	.77	1.48	1.37	1.13	.00	.36	1.0	2.2	5.1	.142*	.151*
Knobit	2A	45	1.79	1.03	2.70	2.40	.10	1.13	2.2	3.6	11.7	.172*	.104
Stilwell Lake	2B	50	1.50	1.82	3.70	3.72	.01	.42	2.9	5.5	17.5	.160*	.194*
MAP3s/PCN													
Brookhaven	2B	76	1.15	1.29	2.00	1.70	.05	.58	1.6	3.1	6.8	.125*	.144*
Ithaca	2A	77	.71	1.41	1.41	1.61	.01	.34	0.9	1.9	8.4	.193*	.128*
Whiteface	1	118	.49	1.36	1.01	1.27	.01	.20	0.6	1.5	8.6	.215*	.075
UAPSP													

Precipitation

State / Network / Site Name	Site Rep	N	Concentration: Geometric Mean cm	SD	Arithmetic Mean cm	SD cm	Percentiles cm: Min	25%	50%	75%	Max	K-S D-Statistic: Gau	Log
Big Moose	1	171	.46	1.19	.84	.98	.03	.20	0.5	1.0	6.0	.204*	.052
North Carolina													
NADP													
Clinton Station	2A	46	1.17	1.94	2.77	2.73	.00	.68	1.7	4.6	11.3	.167*	.182*
Coweeta	2A	48	2.02	1.65	4.12	3.99	.01	1.38	3.0	5.4	16.5	.160*	.178*
Finley (A)	2A	49	1.22	1.56	2.44	2.55	.00	.57	1.9	3.2	12.4	.169*	.149*
Lewiston	2A	46	1.22	1.67	2.29	1.88	.00	.89	1.7	3.4	6.7	.138*	.209*
Piedmont Station	2A	48	1.11	1.70	2.28	1.92	.00	.42	1.9	3.6	6.8	.125	.179*
UAPSP													
Raleigh	3	86	.81	1.17	1.47	1.64	.08	.37	0.9	2.1	8.4	.220*	.066
North Dakota													
NADP													
Teddy Roosevelt NP	2	44	.20	1.70	.60	.90	.00	.08	0.2	0.6	3.7	.286*	.127
Ohio													
NADP													
Caldwell	2B	51	1.07	1.50	2.03	1.93	.00	.51	1.6	2.7	9.3	.147*	.158*
Delaware	2A	50	.74	1.68	1.74	2.04	.00	.27	1.0	2.6	9.8	.197*	.151*
Wooster	3	51	.80	1.74	1.69	1.47	.00	.58	1.7	2.4	6.7	.126*	.192*
MAP3s/PCN													
Oxford	2B	93	.47	1.46	1.11	1.58	.03	.14	0.6	1.7	11.1	.247*	.078
UAPSP													
McArthur	2A	130	.37	1.29	.76	.91	.02	.13	0.4	1.1	4.7	.209*	.113*
Zanesville	3	123	.42	1.24	.82	.94	.03	.13	0.4	1.4	4.5	.218*	.110*
Oklahoma													
NADP													
Clayton Lake		45	.70	2.16	2.21	2.45	.00	.21	1.3	3.0	7.7	.184*	.160*
Oregon													
NADP													
Alsea		47	1.67	1.92	4.34	4.25	.00	.61	3.0	8.0	14.3	.183*	.132*
Bull Run		49	2.53	1.20	4.03	3.39	.03	1.56	3.1	5.8	16.6	.125	.130*
H.J. Andrews		50	2.21	1.72	5.17	5.11	.03	.72	3.1	8.8	17.3	.185*	.120
Lost Creek Dam		40	.78	2.16	2.42	2.82	.00	.37	1.4	3.6	10.0	.240*	.166*
Vines Hill		41	.45	1.56	.93	.83	.03	.18	0.8	1.4	3.4	.139*	.165*
Pennsylvania													
NADP													
Kane	2A	51	1.66	1.22	2.51	1.69	.03	1.27	2.3	3.4	6.9	.093	.181*
Leading Ridge	1	49	1.59	1.14	2.37	1.74	.03	1.13	1.9	3.4	7.0	.152*	.202*
MAP3s/PCN													
Penn State	2B	83	.51	1.65	1.27	1.46	.01	.13	0.9	1.9	7.6	.194*	.134*
UAPSP													
Scranton	2A	113	.43	1.36	.99	1.54	.02	.15	0.5	1.1	11.3	.264*	.088*
South Carolina													
NADP													
Clemson	3	49	.78	1.97	2.44	2.88	.01	.19	1.7	4.5	15.1	.199*	.164*
South Dakota													
UAPSP													
Brookings	2A	59	.53	1.13	.99	1.32	.05	.20	0.5	1.3	7.4	.237*	.105
Tennessee													
NADP													
Elkmont	2A	50	1.30	1.87	2.84	2.47	.00	1.08	2.3	3.9	10.7	.126*	.248*

Precipitation

State / Network / Site Name	Site Rep	N	Concentration: Geometric Mean cm	Geometric SD	Arithmetic Mean cm	Arithmetic SD cm	Percentiles cm: Min	25%	50%	75%	Max	K-S D-Statistic: Gau	Log
Walker Branch	2A	48	1.25	1.62	2.40	2.22	.00	.91	1.8	3.2	8.7	.199*	.203*
MAP3s/PCN													
Oak Ridge	2B	60	1.13	1.16	1.92	1.89	.08	.51	1.4	2.4	8.9	.171*	.117*
UAPSP													
Alamo	2B	48	1.11	1.17	1.94	1.93	.10	.38	1.1	3.1	8.1	.181*	.091
Texas													
NADP													
Forest Seed Ctr	2	46	1.24	1.75	2.87	2.63	.03	.50	2.2	4.4	10.0	.141*	.206*
K-Bar	2	33	.35	1.70	.87	.97	.00	.11	0.4	1.3	3.9	.189*	.128
Longview	2	46	.70	2.25	2.42	2.96	.00	.27	1.2	3.7	15.0	.207*	.180*
Victoria	2	46	.72	1.93	2.33	3.78	.00	.17	1.4	2.8	22.9	.269*	.164*
UAPSP													
Marshall	2A	70	.73	1.32	1.51	2.14	.03	.31	0.7	2.0	15.2	.244*	.072
Utah													
NADP													
Cedar Mt		30	.45	1.64	.90	.80	.00	.34	0.8	1.2	3.2	.130	.246*
Vermont													
NADP													
Bennington	2A	50	1.40	1.28	2.38	2.10	.03	.79	1.8	3.2	7.5	.167*	.137*
UAPSP													
Underhill Center	2A	157	.48	1.30	1.00	1.32	.03	.19	0.5	1.5	8.2	.231*	.069
Virginia													
NADP													
Big Meadows	1	51	1.46	1.95	3.60	3.38	.00	.71	2.7	5.8	12.5	.144*	.195*
Horton's Station	3	47	1.08	1.38	1.93	1.67	.03	.56	1.4	2.8	7.2	.153*	.150*
MAP3s/PCN													
Virginia	2A	61	1.19	1.38	2.34	2.24	.03	.45	1.4	4.0	9.2	.172*	.126*
Washington													
NADP													
Olympic Nat. Park		56	2.85	1.87	7.12	7.37	.01	1.24	5.2	10.3	30.4	.167*	.142*
West Virginia													
NADP													
Parsons	2A	51	1.59	1.27	2.41	1.79	.00	1.19	2.1	3.7	6.5	.174*	.190*
Wisconsin													
NADP													
Lake Dubay	2	47	.58	1.51	1.36	1.85	.03	.18	0.7	1.8	9.6	.236*	.104
Spooner	1	48	1.04	1.30	1.90	1.93	.03	.42	1.3	2.5	9.6	.171*	.124
Trout Lake	1	49	.82	1.47	1.71	1.81	.03	.38	1.1	2.2	7.2	.196*	.139*
WISC													
Geneva Lake		121	.30	1.64	.72	.83	.00	.12	0.4	1.2	5.0	.212*	.106*
Legend Lake		94	.39	1.72	.94	1.08	.00	.16	0.6	1.3	5.8	.192*	.123*
Round Lake	1	126	.30	1.33	.69	1.10	.03	.10	0.4	0.8	9.3	.275*	.117*
Wyoming													
NADP													
Newcastle		45	.32	1.77	.76	.80	.00	.12	0.6	1.1	3.5	.172*	.173*
Pinedale		50	.46	1.45	.87	.84	.00	.29	0.6	1.1	3.8	.203*	.174*
Yellowstone		49	.35	1.50	.71	.76	.00	.21	0.5	0.9	3.9	.180*	.158*
American Samoa													
NADP													
American Samoa		51	1.82	1.28	3.45	3.57	.08	.53	2.5	5.5	13.7	.191*	.132*

Precipitation

State / Network / Site Name	Site Rep	N	Concentration: Geometric Mean cm	Geometric SD	Arithmetic Mean cm	Arithmetic SD cm	Percentiles cm: Min	25%	50%	75%	Max	K-S D-Statistic: Gau	Log
Alberta													
CANSAP													
Coronation		12	1.92	1.06	3.52	4.63	.60	.83	1.6	4.1	13.2	.394*	.274*
Edson		12	2.74	.79	3.73	3.36	.90	1.70	2.1	5.0	11.4	.298*	.215
Fort McMurray		12	2.53	.78	3.19	2.05	.60	1.40	3.3	4.0	7.5	.180	.218
Lethbridge (a)		12	1.98	.92	2.73	2.15	.30	1.35	2.4	3.8	8.1	.218	.159
Rocky Mtn House		12	2.64	.86	3.79	3.67	.80	1.53	1.9	5.5	12.2	.284*	.211
British Columbia													
CANSAP													
Fort Nelson		12	1.96	.98	2.92	2.44	.40	.78	1.9	6.0	6.3	.233	.190
Fort St. John		11	2.65	.93	3.95	3.88	.60	1.40	2.1	5.0	11.6	.310*	.216
Kelowna		12	3.73	.33	3.91	1.14	1.70	3.10	3.7	5.0	5.7	.121	.139
Port Hardy		12	12.82	.64	15.03	7.94	3.50	8.05	15.1	20.5	28.8	.152	.198
Prince George		12	4.02	.65	4.99	3.95	2.00	2.30	3.4	5.8	14.6	.259*	.174
Revelstoke		12	7.96	.55	8.95	4.01	2.10	6.33	8.1	12.8	15.0	.172	.168
Terrace		12	5.95	.71	7.29	4.45	1.40	3.58	7.3	10.2	15.2	.169	.181
Vancouver		12	9.64	.76	12.36	9.31	2.40	6.65	8.5	16.6	35.1	.224	.133
New Brunswick													
CANSAP													
Acadia Fes	3	12	9.14	.48	10.07	4.42	3.80	6.70	9.9	12.3	18.7	.132	.115
Newfoundland													
CANSAP													
Stephenville	3	12	8.95	.79	11.16	6.59	1.30	6.75	10.0	16.7	24.4	.143	.183
Northwest Territories													
CANSAP													
Hay River		12	1.79	.97	2.52	2.03	.20	1.15	2.0	3.3	7.3	.176	.142
Nova Scotia													
CANSAP													
Kejimkujik (a)	2A	12	10.33	.44	11.17	4.03	4.00	7.80	11.8	14.8	16.0	.144	.184
Truro	3	12	9.71	.38	10.30	3.34	4.60	7.92	11.1	12.8	15.6	.140	.175
Ontario													
CANSAP													
Dorset (a)	1	12	7.35	.72	8.88	4.94	1.30	4.85	7.9	12.7	18.7	.154	.163
ELA (a)	2A	11	3.11	1.04	4.68	3.90	.50	1.00	3.6	8.5	12.1	.226	.145
Kapuskasing	3	12	6.33	.42	6.90	3.29	3.50	4.38	6.1	8.2	15.5	.179	.118
Mount Forest (a)	3	12	7.34	.54	8.25	3.74	2.60	5.25	8.6	11.5	14.9	.086	.165
APIOS-D													
Balsam Lake	1	134	.35	1.35	.70	.85	.01	.15	0.4	0.9	5.5	.208*	.090*
Charleston Lake	2A	110	.47	1.26	.85	.83	.01	.21	0.6	1.2	4.3	.171*	.093*
Dorset (b)	1	165	.28	1.51	.64	.78	.00	.10	0.3	0.9	4.4	.206*	.069*
Forbes Twsp.	1	106	.25	1.48	.63	.90	.01	.08	0.3	0.8	4.9	.244*	.070
Graham Lake	1	121	.48	1.16	.84	.81	.03	.19	0.5	1.3	3.6	.169*	.107*
Lac Le Croix (b)	2A	63	.46	1.30	.90	1.03	.01	.15	0.5	1.2	4.2	.220*	.084
Longwoods (b)	2B	117	.41	1.25	.79	.86	.02	.14	0.5	1.1	4.4	.182*	.072
Melbourne	2A	105	.50	1.20	.90	.90	.02	.20	0.5	1.3	3.7	.204*	.088*
Nithgrove	1	128	.49	1.17	1.01	2.78	.02	.24	0.6	1.2	31.2	.360*	.077
North Easthope	2A	130	.41	1.33	.82	1.04	.01	.16	0.5	1.2	8.2	.217*	.076
Quetico Centre	1	92	.39	1.45	.87	1.09	.01	.12	0.5	1.2	6.2	.220*	.087
Railton	1	82	.60	1.23	1.05	.99	.02	.25	0.8	1.6	4.3	.148*	.111*
Raven Lake	1	144	.35	1.25	.64	.66	.01	.14	0.4	0.9	2.9	.168*	.078*

Precipitation

State / Network / Site Name	Site Rep	N	Concentration: Geometric Mean cm	GSD	Arithmetic Mean cm	SD cm	Min	Percentiles cm: 25%	50%	75%	Max	K-S D-Statistic: Gau	Log
Wellesley	2B	125	.48	1.16	.85	.89	.03	.19	0.5	1.3	5.2	.179*	.066
Whitman Creek	2A	85	.57	.99	.87	.77	.09	.24	0.7	1.3	4.1	.157*	.106*
APIOS-C													
Alvinston	2A	13	6.55	.57	7.58	4.17	2.60	3.85	7.6	11.3	14.3	.176	.165
Attawapiskat	3	10	1.68	1.16	2.87	2.84	.31	.54	1.8	5.4	7.8	.210	.130
Bear Island	2A	13	2.82	.84	3.68	2.31	.80	.97	3.3	5.4	7.5	.181	.222
Campbellford	2A	13	5.83	.55	6.61	3.09	2.20	3.43	7.1	9.6	11.0	.130	.215
Colchester	2A	13	5.51	.66	6.56	3.66	1.80	3.25	6.5	9.6	13.2	.113	.150
Coldwater	1	13	5.91	.41	6.43	3.02	3.72	4.35	5.5	8.2	13.7	.233	.191
Dalhousie Mills	2B	13	7.07	.52	7.79	3.08	1.60	6.30	7.4	9.5	14.0	.204	.275*
Dorion	1	13	5.56	.38	5.97	2.65	3.67	3.98	5.3	7.1	13.2	.195	.138
Dorset (c)	1	13	6.53	.53	7.44	4.11	2.70	4.50	6.6	8.9	16.3	.198	.118
Ear Falls	3	14	2.96	1.03	4.28	2.98	.32	1.07	4.8	6.5	9.0	.157	.223
Expt. Lake Area	2A	14	2.08	1.35	3.33	2.28	.09	1.73	3.0	5.8	7.3	.152	.248*
Golden Lake	1	13	6.22	.33	6.57	2.42	3.70	5.09	5.6	8.3	12.6	.272*	.219
Gowganda	2A	13	5.02	.50	5.68	3.22	2.48	3.43	4.8	7.0	13.6	.222	.138
Huron Park	2A	13	5.03	.63	6.08	4.01	1.90	3.04	3.8	9.9	13.0	.250*	.204
Killarney	2A	13	6.01	.64	7.13	4.26	1.49	3.96	6.8	8.4	15.7	.225	.143
Lac Le Croix (a)	2A	14	2.21	1.24	3.63	3.11	.13	1.57	2.5	6.7	10.6	.255*	.234*
Mattawa	2A	13	6.48	.51	7.31	3.84	2.80	4.09	7.1	8.5	16.2	.239*	.170
McKellar	2A	13	7.37	.57	8.55	4.94	3.00	5.67	7.0	11.8	18.0	.238*	.152
Merlin	2A	13	5.70	.53	6.46	3.21	2.50	3.50	6.0	9.5	12.2	.137	.127
Milton	3	13	5.55	.53	6.22	2.79	1.70	4.25	5.5	8.9	10.4	.141	.162
Moonbeam	2A	13	4.39	1.09	6.01	3.86	.17	3.96	5.0	7.8	16.0	.149	.285*
Palmerston	2A	13	4.83	.63	5.83	3.93	2.00	2.75	4.3	7.3	15.0	.190	.176
Pickle Lake	2A	13	2.94	.84	4.14	4.08	.84	1.44	2.7	5.6	16.0	.215	.099
Port Stanley	2B	13	5.99	.63	7.26	5.20	2.70	3.35	5.9	8.9	21.3	.215	.107
Quetico Centre	1	14	4.63	.87	6.29	4.54	1.00	2.64	4.3	10.3	13.7	.257*	.187
Shallow Lake	2A	13	6.79	.50	7.55	3.49	2.30	5.35	7.2	10.1	14.9	.152	.133
Smith's Falls	3	13	5.87	.46	6.37	2.34	1.90	5.20	6.7	7.8	10.5	.152	.229
Uxbridge	2B	13	5.27	.45	5.77	2.46	2.50	3.45	5.6	7.6	10.0	.148	.120
Waterloo	2A	13	6.30	.46	6.98	3.48	3.00	4.50	5.8	8.5	14.3	.221	.133
Whitney	1	13	5.64	.53	6.57	4.48	2.58	4.05	5.0	7.5	19.1	.337*	.249*
Wilberforce	1	13	6.92	.43	7.49	3.80	4.10	4.85	7.2	8.8	18.1	.188	.197
Wilkesport	2A	13	5.37	.68	6.53	4.09	1.60	3.50	4.9	10.0	13.8	.194	.104
Winisk	3	12	1.69	1.53	2.57	1.37	.02	2.12	2.3	3.6	5.3	.222	.391*
Quebec													
CANSAP													
Maniwaki	2B	12	7.18	.42	7.81	3.60	3.50	5.55	6.9	9.4	17.2	.183	.121
Sept Isles	3	12	10.06	.51	11.27	5.44	3.50	7.35	9.3	15.1	22.2	.195	.130
Saskatchewan													
CANSAP													
Kindersley		12	2.75	.92	4.03	4.02	.70	1.25	3.3	5.2	15.3	.209	.135
Wynyard		12	2.46	.94	3.97	5.20	.80	1.08	2.4	4.2	19.6	.316*	.158
Yukon Territory													
CANSAP													
Whitehorse		12	1.07	1.20	1.91	1.91	.20	.33	1.2	3.5	5.5	.236	.154

*U.S. GOVERNMENT PRINTING OFFICE: 1986/646-116/20739